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Temporis IP150

Administrator and Provisioning Manual

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Congratulations on your purchase of this Alcatel Temporis IP product. Before using this Alcatel Temporis IP product, please read Important Safety Information on page 105 of this manual. Please thoroughly read this manual for all the feature operations and troubleshooting information necessary to install and operate your new product. You can also visit our website at alcatel-business.com.

This manual provides instructions for using your Temporis IP150 telephone with software version 0.64 or newer. See page 14 for instructions on checking the software version on the deskset.

Parts checklist

Your telephone package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.

- Quick Start Guide
- Handset and handset cord
- Phone base
- Foot stand
- Wall mount accessory
- Ethernet cable

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Introduction

This administrator and provisioning guide contains detailed instructions for installing and configuring your Temporis IP150 IP phone. Please read this guide before installing the telephone.

Audience

This guide is written for installers and system administrators. It assumes that you are familiar with networks and VoIP, both in theory and in practice. This guide also assumes that you have ordered your IP PBX service and selected which PBX features you want to implement. This guide does not reference specific IP PBX services except for features or parameters that have been designed for a specific service. Please consult your service provider for recommended switches, routers, and firewall and NAT traversal settings, and so on.

As the Temporis IP150 deskset becomes certified for IP PBX services, we may make available interop guides for those specific services. These will recommend second-party devices and settings, along with deskset-specific configurations for optimal performance with those services. Contact your distributor or installer for the latest updates.

Related documents

The Temporis IP150 **Quick Start Guide** contains a quick reference guide to the deskset external features and brief instructions on connecting the deskset to a working IP PBX system.

The Temporis IP150 **User's Guide** contains a quick reference guide, connection instructions, instructions for making and receiving calls, and a guide to all user-configurable settings.

The documents are available from our website at alcatel-business.com.

About your phone

The Temporis IP150 phone is full-featured business phone designed to work with popular SIP telephone (IP PBX) services. Once you have ordered and configured your SIP service, the deskset enables you to make and receive calls as you would with any other business phone. The phone provides calling features like hold, transfer, conferencing, speakerphone, quick dial numbers and one-touch voicemail access.

There are two network ports, known as the LAN port and PC port, at the back of the deskset. The LAN port allows the Temporis IP150 deskset to connect to the IP PBX via a router. The PC port is for another device such as a personal computer to connect to the Ethernet network through the deskset.

You can configure the deskset using the deskset's own menus, a browser-based interface called the WebUI, or an automatic provisioning process (see Provisioning Using Configuration Files on page 80). The WebUI enables you to configure the deskset using a PC that is connected to the same Local Area Network. The WebUI resides on the deskset, and is updated with any firmware updates.

The Temporis IP150 deskset supports intercom and call transfers between system extensions and can connect you and two other parties on the same conference call.

The telephone also has 10 dual-function programmable keys. Your system administrator can program up to 18 quick-dial numbers for these keys. Some of those keys can also be programmed to monitor other desksets in the system. The left hand side programmable keys have two-color LEDs to indicate call activity. You can press the key for a monitored extension to answer a call at your own deskset.

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This telephone supports caller ID with call waiting service. Caller ID services are subscriber services available from many telephone service providers for a fee. The telephone can store up to 200 Call Log entries.

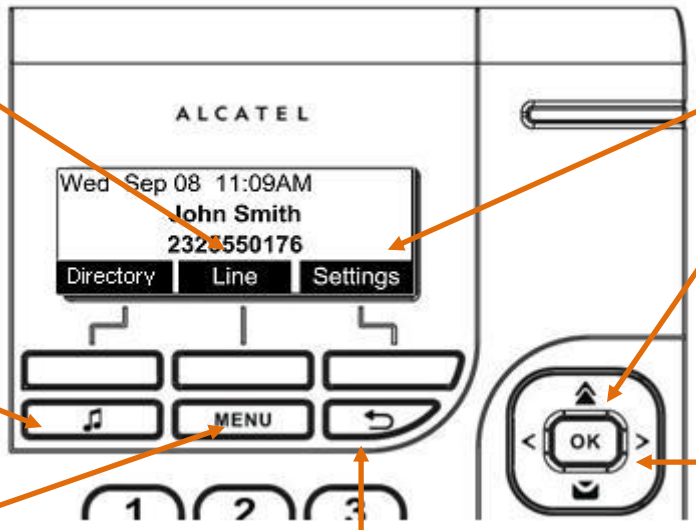
The Temporis IP150 IP Phone features include:

- 2.5-inch backlit Liquid Crystal Display
- Speakerphone, Headset, Hold and Mute
- Up to 2 SIP Registrations
- Up to 6 active SIP sessions
- 3-way conferencing
- 10 dual-function programmable keys
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- Dual 10/100 Mbps Ethernet ports
- Power over Ethernet enabled
- 200-entry Call Log

Getting started

Quick reference guide

The controls you will need to use to configure the phone manually are described below.



Line
Press to change dial-out account (shown if second sip account is registered only)

Settings
Press to quickly access **User Settings** menu

OK
Press to select a menu item or save an entry or setting.

Hold key
In conversation, press to place active call on hold.

In idle mode, press to quickly access **Network Status** menu

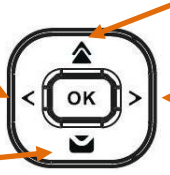
NAVIGATION KEY
While in menus, press ▲ or ▼ to scroll through the menu, highlight items or change settings. While entering names or numbers, press ◀ or ▶ to move the cursor left or right.

MENU
Press to enter the menu.

CANCEL
While in a menu, press to cancel an operation and exit the menu.

In idle mode, long press to **reboot** the phone

Navigation key also provides shortcuts to the following functions in idle mode:



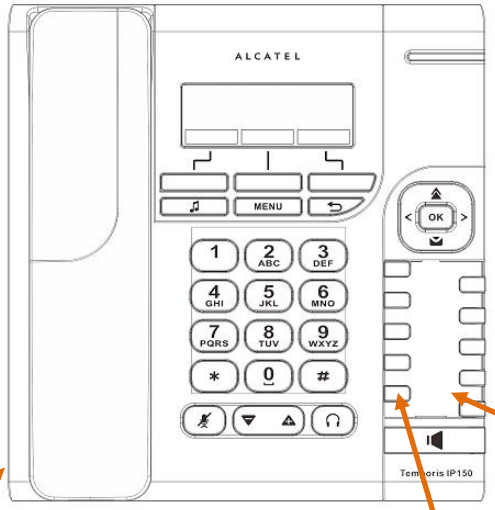
Call history
Press to access your call logs

Redial
Press to access redial list

Line
Press to switch dial out account

Voicemail
Press to access Voicemail menu

The deskset external features that are relevant to installation and configuration are described below.



Programmable keys
Can be programmed to perform various functions or access various features.
For example:

- Press to access a line to make a call
- Press to dial a monitored extension or a quick-dial number
- Press to answer a ringing call on any line or monitored extension

Directory card
To write names on the directory card, pull out the directory card from under the plastic cover.

RJ9 Corded headset input (on side)

Access F11 To F20
Press F5 to switch to the second possible value of a programmable key.

Note: This is the default setting. You can configure F5 to perform other functions

Programmable Keys

The table below lists the default settings for the programmable keys. The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, for example. To assign functions to programmable keys, see Programmable Keys on page 39.

Key Number	Setting
1	Line 1*
2	Line 1
3	Quick dial
4	Quick dial
5	Access to F11-F20
6-14	Quick dial
15	Access to F11-F20
16-20	Quick dial

* You can assign more than one key to a line. For example, you can configure keys 1 and 2 to access Line 1, and keys 3 and 4 to access Line 2. Label the keys appropriately for deskset users after configuration.

Other possible programmable key settings

- Directory
- Call History
- Redial
- Messages

- Do not disturb
- Quick Dial
- BLF—Busy lamp field keys let you monitor activity at other phones. The key LED indicates call status.
- Call Forward Unconditional
- Call Forward Busy
- Call Forward No Answer
- Call Forward All
- Park Call—Dials the access code to park your current call. To program access codes, see SIP Account Management on page 22.
- Retrieve Parked Call—Dials the access code to retrieve a parked call.
- In Call DTMF—Dials a string of numbers while you are on a call. For example, pressing the key might dial a conference access code.
- Call Back—Dials the number of the last missed call.
- Intercom—If this feature is enabled, press the Intercom key to call one or a group of phones. You can configure Intercom calls to be automatically answered. See SIP Account Management on page 22.
- Group Call Pickup—Dials the Group Call Pickup code, allowing you to answer a call ringing at another extension.
- Direct Call Pickup—Dials the Direct Call Pickup code, allowing you to answer a call ringing at a specific extension. After pressing the button, you may need to enter the extension number manually.

Network Requirements

A switched network topology is recommended for your LAN (using standard 10/100 Ethernet switches that carry traffic at a nominal rate of 100 Mbit/s).

The office LAN infrastructure should use Cat.-5 (or better) cable.

The LAN connections to the deskset(s) should all be wired. However, wireless connections to other devices (such as laptops) in your office will not impede performance.

All desksets must reside on a single subnet. A DHCP server is recommended and must be on the same subnet as the desksets so that IP addresses can be auto-assigned. In most cases, your network router will have a Dynamic Host Configuration Protocol (DHCP) server that will automatically assign IP addresses to desksets. By default, the deskset has DHCP enabled for automatic IP address assignment.

If no DHCP server is present, you can assign static IPs to desksets. If you do not have a DHCP server or do not manually assign static IPs, you will not be able to access the WebUI and/or enable automatic time updates from an NTP server.

Unless you want to manually set the system clock and manually upgrade deskset software, an Internet connection to the LAN is required.

A DNS server is recommended to resolve the path to the Internet and to a server for firmware and configuration updates.

If necessary, the system administrator can also download upgrade files and use the WebUI to update the deskset firmware and/or configuration settings manually.

For users whose computers require a GigE Ethernet frame rate (a gigabit per second), use separate Ethernet connections for the Deskset and the computer. The Ethernet connection through a Deskset is limited to 100 Mbits/s.

IP Addresses and Connectivity

An IP address is an individual numeric identification assigned to devices on a computer network. Valid IP addresses on the same subnet allow devices on the network to identify

each other and enable communication. To enable access to the WebUI, at least one deskset needs a valid IP address on the same subnet as the computer you are using to access the WebUI.

This IP address may be assigned from a Dynamic Host Configuration Protocol (DHCP) server, or set statically to the same subnet, and will be separate from the self-assigned 169.254.xxx.xxx link-local address that the desksets use to communicate with each other. When setting up the IP address on a deskset, this network IP address used for WebUI connectivity is the only address you can change.

The network IP addresses can be assigned in two ways:

1. The deskset can request a network server to automatically assign an IP address. This IP address is a dynamic assignment; the address is on lease from the server. The lease is renewed as long as the device remains connected and there is no change to the network. However, if the device is disconnected, or if there is a network or AC power interruption, the lease may not be renewed (that is, the IP address expires) and a new IP address may be assigned.

Note: Some DHCP servers have default settings that limit the number of network IP addresses assigned to devices on the network. You should log in to your server to confirm that the IP range is sufficient to accommodate at least one of the desksets that you are adding. Consult the IT department if you need help checking the server.

2. You can manually assign a static IP address to a deskset. This IP address does not change, even when there are network or AC power interruptions. Some installations will require manual static IP assignment. You can assign a static IP address for a deskset from the deskset IP Settings menu. See "Deskset IP Settings" on page 71.

Installation

This section assumes that your network infrastructure is established and that your hosted IP PBX service has been ordered and configured for your location.

Install the phone close to a router or network switch. You can power the phone using Power over Ethernet (PoE—Class 2) or the power adapter (not supplied). If you are not using PoE, install the phone near a power outlet not controlled by a wall switch. The phone can be placed on a flat surface or vertically mounted on the wall.

For customer service or product information, visit our website at alcatel-business.com.

Avoid placing the deskset too close to:

- Communication devices such as television sets, DVD players, or other cordless telephones.
- Excessive heat sources.
- Noise sources such as a window with traffic outside, motors, microwave ovens, refrigerators, or fluorescent lighting.
- Excessive dust sources such as a workshop or garage.
- Excessive moisture.
- Extremely low temperature.
- Mechanical vibration or shock such as on top of a washing machine or work bench.

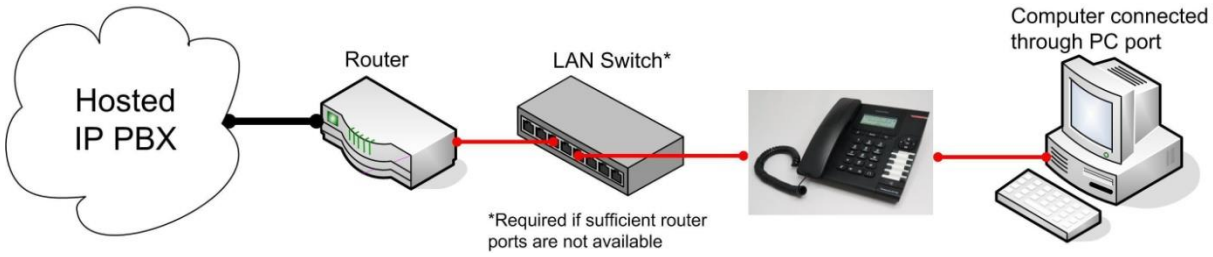
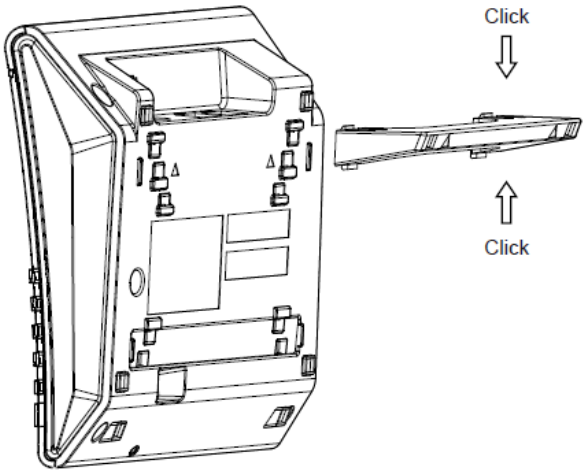


Figure 1: Temporis IP150 Installation Example

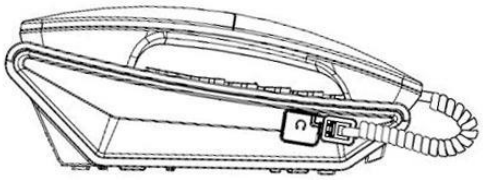
Deskset installation

To install the phone:

1. If you plan to place the phone on a flat surface, you can use the phone with or without the foot stand depending on the work angle you wish to have. To assemble the stand line up the tabs on the stand (marked with triangles) with the slots on the rear of the phone as shown in the picture



Plug the end of the coiled handset cord into the Handset jack on the side of the phone.



2. Plug one end of the Ethernet cable into the Ethernet port at the back of the console, and plug the other end of the cable into your network router or switch.

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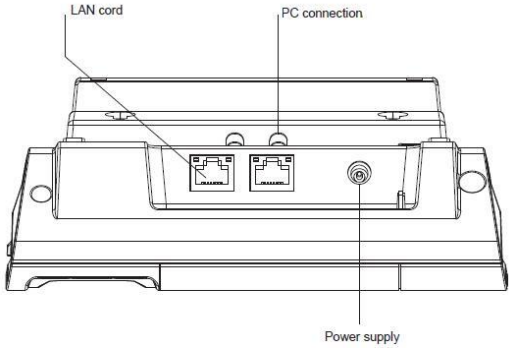


NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

3. If the deskset is not using power from a PoE-capable network router or switch:
    a. Connect the power adapter to the deskset power jack.
    b. Plug the power adapter into an electrical outlet not controlled by a wall switch.

IMPORTANT INFORMATION

1. Use only original power adapters. Contact your distributor to order.
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

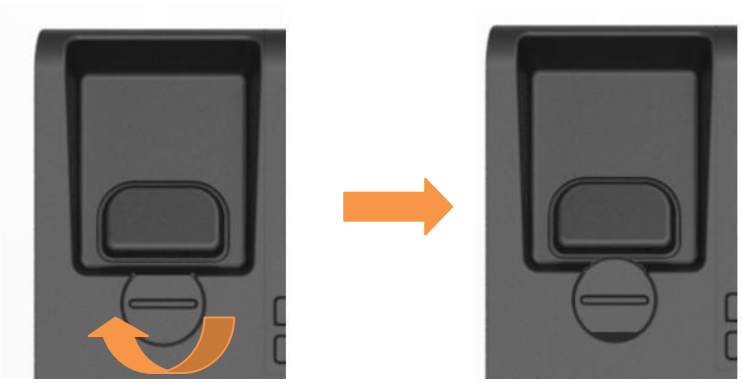
If there is a networked computer and no extra Ethernet wall ports near the phone, then the phone and PC can share the same network connection.

To share a network connection with a PC:

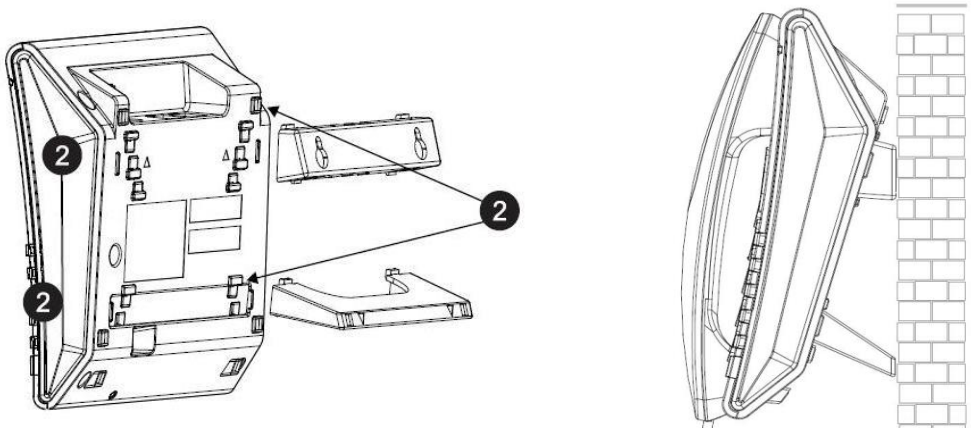
1. Plug a Cat.-5 Ethernet cable into the PC port on the phone.
2. Plug the other end of the Cat.-5 Ethernet cable into your computer's network port.
    - If a GigE network is being used, a computer connected through the phone will be limited to 100 Mbits/s. If you require a GigE Ethernet rate, use separate Ethernet connections for the phone and the computer.
    - If a PC is connected to your network through a phone, any phone resets and power or network interruptions will disrupt the PC's connection to the network.

To mount the phone on the wall:

1. Put the corded handset aside. Use a coin to rotate the handset tab 180 degrees. The protruding edge holds the corded handset when the phone is mounted on the wall.



2. Assemble wall mount accessories as depicted



3. Connect the network cable(s) and power adapter (if required).
4. Hang the phone on the wall using the upper holes in the wallmount accessory.

Verifying the installation

Idle Screen

The idle screen appears after the phone is connected and configured for your SIP PBX service. The idle screen indicates that you have no active or held calls.

Figure 2: Idle screen

Note "Line" softkey will be shown only if you have configured and registered more than one sip account.

Configuring the Phone

You can configure the phone using one of three methods:

- From the phone itself, using the menus. The phone menus are best suited to configuring a few settings, perhaps after the initial setup has been done. For administrators, the settings available on the phone menus are limited to network settings. See Using the Admin Settings menu on page 15. Most of the settings accessible on the phone itself are most useful for end users. Through the menu, they can customize the screen appearance, sounds, and manage calls. For more information, see the Temporis IP150 User Guide.
- The Web User Interface, or WebUI, which you access using your Internet browser. See Using the WebUI on page 19. The browser-based interface is easy to navigate and best-suited to configuring a large variety of phone settings. The WebUI has every setting required for configuring a single phone. You can enter service provider account settings on the WebUI, configure the programmable keys, and set up provisioning, which will allow you to automatically and remotely update the phone after initial configuration.
- The configuration file. Working with configuration files is the best way to configuring multiple phones. There are several methods available to enable the phone to find the configuration file. For example, you can enable the phone, when it starts up or reboots, to check for the presence of a configuration file on a provisioning server. If the configuration file is new or has been modified in any way, the phone automatically downloads the file and applies the new settings. For more information, see Provisioning Using Configuration Files on page 80.

Using the Phone Menu

The phone menu has four main sub-menus:

- **Features**—manage calls, view and add directory entries, view call history, access messages, and use the speed dial menu.
- **Status**—view the deskset network status, account registration status, and product information.
- **User Settings**—allows the user to set the language for the display, configure the appearance of the display, customize the audio settings, and register a DECT headset.
- **Admin Settings**—configure network settings (enter static IP addresses, for example) and line settings.

This guide contains instructions for using the Admin Settings menu and for accessing the Status menu. See the Temporis IP150 User Guide for more information about Features and User Settings.

To use the phone menu:

1. When the phone is idle, press **MENU**.

   The main menu appears.

2. Press ▼ or ▲ to highlight the desired sub-menu, and then press **OK**.

   - You can also press a corresponding dial pad key to select a numbered menu item. Press **2** for the Status menu, for example.
   - Press OK or an appropriate soft key to save changes.
   - Press to cancel an operation, exit the menu display or return to the idle screen.

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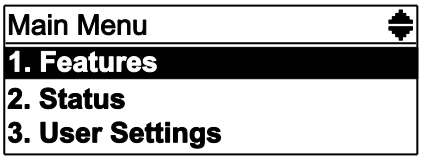


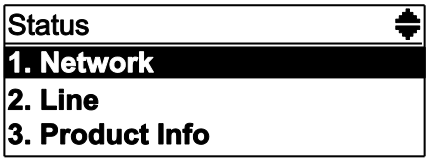
Status

Use the status menu to verify network settings and begin troubleshooting if network problems or account registration issues affect phone operation.

You can also find the software version of the phone on the Product Info screen, available from the Status menu.

To view the Status menu:

1. When the phone is idle, press **MENU**.
2. On the Main menu, press ▲ or ▼ to highlight **Status**, then press **OK**. The Status menu appears.



3. On the Status menu, press ▲ or ▼ to highlight the desired menu, then press **SELECT**.

The available status menus are:

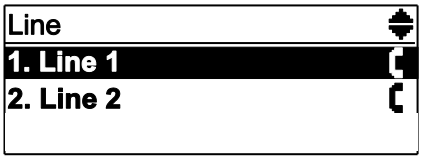
Menu	**Information listed**
1. Network	• IP address • DHCP status (Enabled/Disabled) • Subnet Mask IP address • Gateway IP address • DNS server 1 IP address • DNS server 2 IP address • SNTP server URL • MAC address
2. Line	Lines and registration status. On the Line menu, highlight and select the desired line to view detailed line status information: • Line status (Registered/Not registered) • Line display name • Line User ID • Server IP address • Server Port number • Proxy server IP address • Proxy server port number
3. Product Info	• Model number • Serial number • MAC address • Software version • Hardware version

Note

To view Network status you can also use the following shortcut. In idle mode, press key.

Viewing Line status

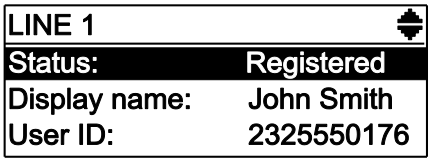
When you select **Line** from the Status menu, the **Line** menu appears, listing the available lines along with icons indicating each line's current registration status.



Icon	Description
	Line registered
	Line not registered
	Line disabled

To view complete status information for a line:

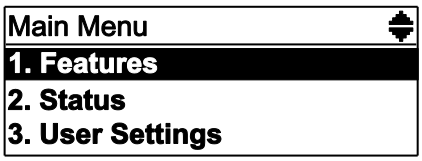
1. On the **Line** menu, press ▲ or ▼ to highlight the desired line, then press **SELECT**. The full line status screen appears.



Using the Admin Settings menu

To access the Admin Settings menu:

1. When the phone is idle, press MENU. The Main menu appears.



2. Press ▲ or ▼ to highlight **Admin Settings**, then press SELECT.

   -or-

   Press 4 (Admin Settings) on the dial pad.

3. Use the dial pad to enter the admin password, the press SELECT. The default password is **admin**.

The Admin Settings are:

Setting	Options
1. Network setting	1. DHCP (Enable, Disable) 2. Set static IP 3. VLAN 4. Others
2. Line	1. LINE 1 2. LINE 2 (if available)
3. Provisioning	Configure provisioning server url, user and password
4. Reset to default	Press SELECT to reset the phone to factory default settings.
5. Restart phone	Press SELECT to restart the phone.

Network Setting

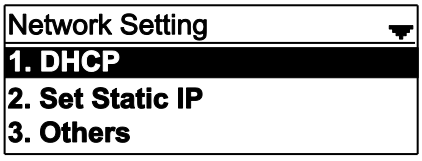
Use the Network setting menu to configure network-related settings for the phone.

Note: After you press Save for any of the network settings, the phone restarts.

To use the Network setting menu:

1. From the Admin Settings menu, press ▲ or ▼ to highlight **Network setting**, then press **SELECT**.

   The Network setting menu appears.



2. Press ▲ or ▼ to highlight the desired option, then press **SELECT**:
   - DHCP
   - Set static IP
   - Others (DNS and NTP servers).

To enable or disable DHCP:

1. From the Network setting menu, press ▲ or ▼ to highlight DHCP, then press SELECT.
2. Press ◀ or ▶ to select Enabled or Disabled, then press Save.

DHCP is enabled by default, which means the deskset will get its IP address from the network. When DHCP is disabled, you must enter a static IP address for the deskset.

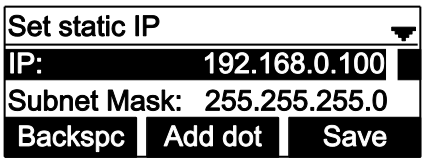
Note: You must be familiar with TCP/IP principles and protocols to configure static IP settings.

To set static IP for the deskset:

1. From the Network setting menu, press ▲ or ▼ to highlight **Set static IP**, then press SELECT.

If DHCP is disabled, the **Set static IP** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the Network setting menu.

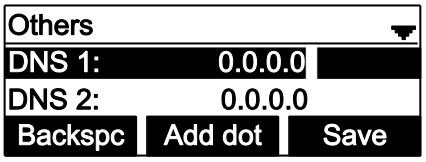
2. On the Set static IP menu, enter the static IP address. Use the dial pad and the Add dot soft key to enter characters. Press ◄ or ► to advance to the next character.



3. Press ▼ and enter the Subnet Mask. Use the dial pad and the Add dot soft key to enter characters. Press ◄ or ► to advance to the next character.
4. Press ▼ and enter the Gateway. Use the dial pad and the Add dot soft key to enter characters. Press ◄ or ► to advance to the next character.
5. Press Save.

To set other settings (DNS and NTP):

1. From the Network setting menu, press ▲ or ▼ to highlight **Others**, then press SELECT. The **Others** menu appears.



2. If DHCP is disabled or you don't wish to use the DHCP-assigned DNS server (or one specified by your service provider), enter the IP address for the primary DNS server. Use the dial pad and the Add dot soft key to enter characters. Press ◄ or ► to advance to the next character.
3. Press ▼ and enter the IP address for the secondary DNS server. The deskset uses this server if the primary server does not respond.
4. Press ▼ and enter the IP address for the NTP server. If the deskset does not use an NTP server, you must manually enter the time and date settings.
5. Press Save.

Line Menu

Use the Line menu to configure line-specific settings for the phone.

On the Line menu, you can configure:

- Line status (Registered/Not registered)
- Line display name
- Line User ID
- Auth ID
- Password
- Server IP address
- Server Port number
- Proxy server IP address
- Proxy server port number
- Line registration
- Auto/manual answer page

To use the Line setting menu:

1. From the Admin Settings menu, press ▼ to highlight **Line**, then press **SELECT**.

The Line menu appears.

2. Highlight the desired line, if necessary, by pressing ▼, and then press **SELECT**.

The full configuration menu for that line appears. You can configure:

- Display name
- User ID
- Authorization ID
- Authorization Password
- Server IP
- Server port
- Proxy server IP
- Proxy server port
- Register (On or Off)
- Answer page (Manual or Auto)

For more information about these settings, see SIP Account Management on page 22.

3. Edit the Line settings using the dial pad and the soft keys available for each setting:

- Backspc—deletes a character
- 123—enables you to enter numbers, lower case letters, or upper case letters with the dial pad. Does not appear when the setting accepts numbers only.
- Save—prompts you to reboot the phone and apply the new settings
- Edit—enables you to edit the setting (appears for the Password setting)

Press ◀ or ▶ to advance to the next character.

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Using the WebUI

The Web User Interface (WebUI) resides on your phone. You can access it using an Internet browser. After you log in to the WebUI, you can configure the phone on the following pages:

- System
  - SIP Account Management
  - Call settings
  - User Preferences
  - Programmable Keys
  - Memory Keys
  - Signaling Settings
  - Ringer Settings
- Network
  - Basic Network Settings
  - Advanced Network Settings
- Contacts
  - Local Directory
  - Blacklist
  - LDAP
  - Broadsoft
  - Call History
- Servicing
  - Reboot
  - Time and Date
  - Firmware Upgrade
  - Provisioning
  - Security
  - Certificates
  - System Logs

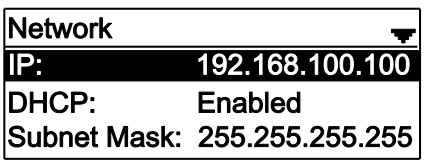
The WebUI also has a **Status** page, where you can view network status and general information about your phone. The information on this page matches the Status menu on the phone.

To access the WebUI:

1. Ensure that your computer is connected to the same network as your deskset. Your computer may already be connected to the network through the PC port on the back of your deskset.
2. Find the IP address of your phone:
   a. When the phone is idle, press **MENU**.
   b. Press ▼ to highlight **Status**, and then press **SELECT**.
   c. With **Network** highlighted, press **SELECT**.

      The Network status screen appears.

      Note: Instead of steps a, b, c you can use the shortcut to Network status (in idle mode press ♫)
   d. On the Network status screen, note the IP Address.



3. On your computer, open an Internet browser. (Depending on your browser, some of the pages presented here may look different and have different controls.)
4. Type the phone IP address in the browser address bar and press ENTER on your computer keyboard.

5. A login box appears. Under Username, enter **admin**. For the password, enter the default password, **admin**. You can change the password later on the **Servicing > Security** page.
6. On the login box, click **OK**.

   The WebUI appears.

Click topics from the navigation bar along the top of the WebUI, and then click links to individual pages along the left. You view and change settings in two different types of fields: drop-down lists and entry fields into which you type information. For your security, the WebUI times out after 10 minutes, so if it is idle for that time, you must log in again.

The remaining procedures in this section assume that you are already logged into the WebUI.

NOTE: The settings tables in this section contain settings that appear in the WebUI and their equivalent tags in the configuration file template. Settings only available on the configuration files are also described. You can use the configuration file template to create custom configuration files. Configuration files can be hosted on a provisioning server and used for automatically configuring phones. For more information, see Provisioning Using Configuration Files on page 80.

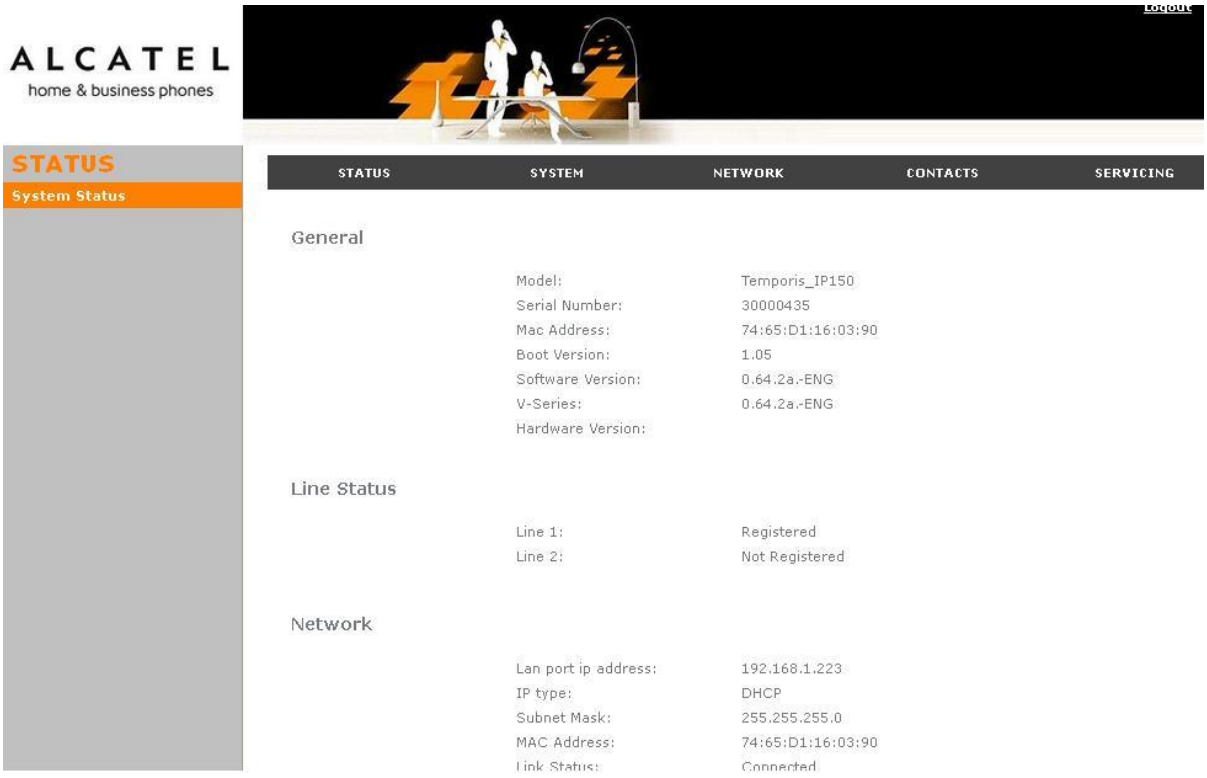
Saving Your Settings

Each WebUI settings page has a **Save** button. Click **Save** to save any changes you have made on the page. During a configuration session, click **Save** before you move on to the next WebUI page.

Status

The status page is equivalent to the Status menu on the phone UI. The information page shows:

- **General** information about your phone, including model, MAC address, and software version
- **Line Status** information about your and SIP account registration
- **Network** regarding your phone's network address and network connection



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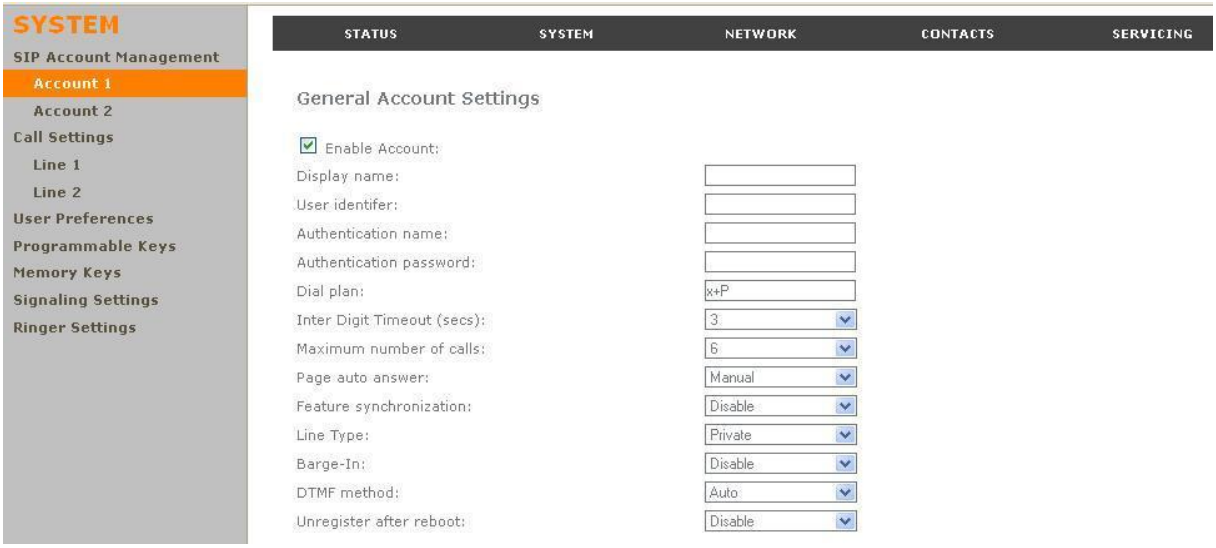
SIP Account Management

On the SIP Account Management pages, you can enter the account settings for each line you have ordered from your service provider. There are two Account settings pages (one for each available line) with identical settings on each page.



General Account Settings

Setting	Description	Range	Default
Enable Account `sip_account.x.sip_account_enable`	Enable or disable the SIP account. Select to enable.	0: Disable 1: Enable	0
Display Name `sip_account.x.display_name`	Enter the name that will appear on the phone LCD. The display name is also the text portion of the caller ID that is displayed for outgoing calls.	string	blank
User identifier `sip_account.x.user_id`	Enter the User identifier supplied by your service provider. The User ID, also known as the Account ID, is usually the company's main number and is used as part of the caller ID displayed for outgoing calls. This field will only accept digits.	string	blank
Authentication name `sip_account.x.authentication_name`	Enter the authentication name (or authentication ID) supplied by your service provider. This is used for authentication with the service provider and in most cases is the same as the User ID.	string	blank

Authentication password `sip_account.x.authentication_password`	Enter the account authentication password, as supplied by your service provider.	string	blank
Dial Plan `sip_account.x.dial_plan`	Enter the dial plan, with dialing strings separated by a | symbol. See Dial Plan on page 24.	string	X+P
Inter Digit Timeout (secs) `sip_account.x.inter_digit_timeout`	Sets the timeout before the dialed number is sent to the SIP server.	1–10 seconds	3 seconds
Maximum Number of Calls `sip_account.x.maximum_call_number`	Select the maximum number of simultaneous voice calls to which you have subscribed from your service provider. The maximum value is 6.	1-6	3
Page Auto Answer `sip_account.x.auto_answer_enable`	Enables the deskset to automatically answer when a page is received. This is usually the desired behavior for paging.	0: Disable 1: Enable	1
Feature Synchronization `sip_account.x.feature_sync_enable`	Enables the phone to synchronize with Broadworks Application Server. Changes to features such as DND, Call Forward All, Call Forward No Answer, and Call Forward Busy on the server side will also update the settings on the phone menu and WebUI. Similarly, changes using the phone or WebUI will update the settings on the server.	0: Disable 1: Enable	0
Line Type `sip_account.x.share_line_enable`	Select the line type. A private line will be accessible only at the deskset you are configuring. For more information about using shared lines, see the *Temporis IP150 User's Guide*.	0: Private 1: Shared	0
Barge-in `sip_account.x.barge_in_enable`	Enables subscribers to shared lines to "barge in" on active calls on other shared lines.	0: Disable 1: Enable	0

DTMF method sip_account.x.dtmf_transport_method	Select the default DTMF transmission method. You may need to adjust this if call quality problems are triggering unwanted DTMF tones or you have problems sending DTMF tones in general.	Auto, Event, Inband, SIP INFO	Auto
Unregister after reboot sip_account.x.unregister_after_reboot_enable	Enables the phone to unregister the account(s) after rebooting—before the account(s) register again as the phone starts up. If other phones that share the same account(s) unregister unexpectedly in tandem with the rebooting deskset, disable this setting.	0: Disable 1: Enable	0

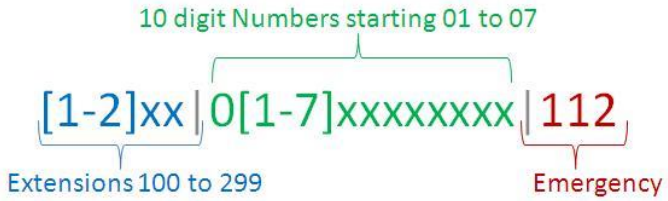
Dial Plan

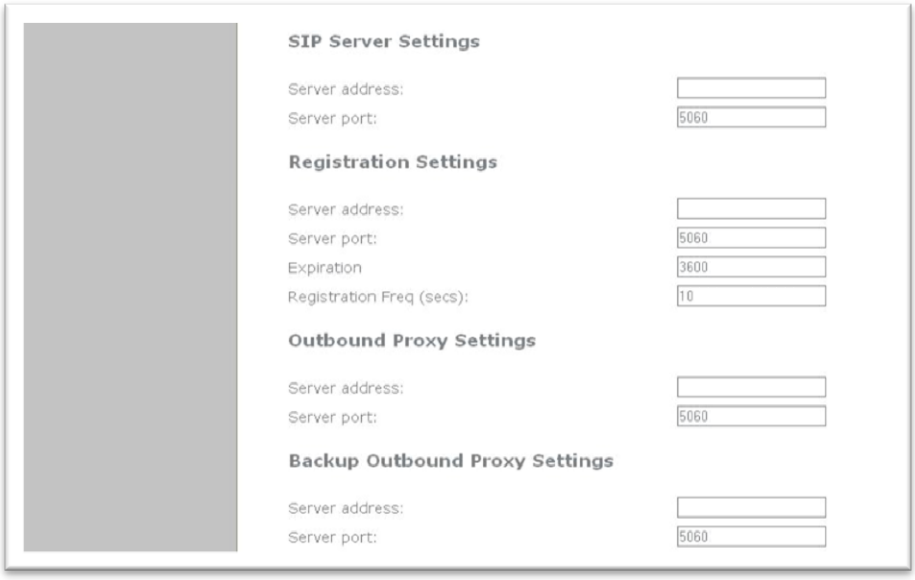
The dial plan consists of a series of dialing rules, or strings, that determine whether what the user has dialed is valid and when the phone should dial the number.

Dialing rules must consist of the elements defined in the table below.

Element	Description
x	Any dial pad key from 0 to 9, including # and *.
[0-9]	Any two numbers separated by a hyphen, where the second number is greater than the first. All numbers within the range or valid, excluding # and *.
x+	An unlimited series of digits.
,	This represents the playing of a secondary dial tone (<SIP_2ND_TONE>) after the user enters the digit(s) specified or dials an external call prefix (<EXT_CALL_PREFIX>) before the comma. For instance, "9,xxxxxxx" means the secondary dial tone is played after the user dials 9 until any new digit is entered. "9,3xxxxxx" means only when the digit 3 is hit would the <SIP_2ND_TONE> stop playing.
PX	This represents a pause of a defined time; X is the pause duration in seconds. For instance, "P3" would represent pause duration of 3 seconds.
(0:9)	This is a substitution rule where the first number is replaced by the second. For example, "(4:723)xxxx" would replace "46789" with "723-6789". If the substituted number (the first number) is empty, the second number is added to the number dialed. For example, in "(:1)xxxxxxxxxx", the digit 1 is appended to any 10-digit number dialed.
|	This separator is used to indicate the start of a new pattern. Can be used to add multiple dialing rules to one pattern edit box.

A sample dial plan appears below.





SIP Server Settings

Setting	Description	Range	Default
Server address `sip_account.x.primary_sip_server_address`	Enter the IP address or fqdn for the SIP server.	IP address or fqdn	blank
Server port `sip_account.x.primary_sip_server_port`	Enter the port number that the SIP server will use.	0-65535	5060

Registration Settings

Setting	Description	Range	Default
Server address `sip_account.x.primary_registration_server_address`	Enter the IP address or fqdn for the registrar server.	IP address or fqdn	blank
Server port `sip_account.x.primary_registration_server_port`	Enter the port number that the registrar server will use.	0-65535	5060
Expiration	Enter the desired registration expiry time in	0–65535	3600

sip_account.x.primary_registration_expires	seconds. This is usually 3600 seconds (1 hour).		
Registration Freq (secs) sip_account.x.registration_retry_time	Enter the desired registration retry time in seconds.	1–1800	10

Outbound Proxy Settings

Setting	Description	Range	Default
Server address sip_account.x.primary_outbound_proxy_server_address	Enter the IP address or fqdn for the outbound proxy server.	IP address or fqdn	blank
Server port sip_account.x.primary_outbound_proxy_server_port	Enter the port number that the outbound proxy server will use. This is usually 5060.	0–65535	5060

Backup Outbound Proxy Settings

Setting	Description	Range	Default
Server address sip_account.x.backup_outbound_proxy_server_address	Enter the IP address or fqdn for the backup outbound proxy server.	IP address or fqdn	blank
Server port sip_account.x.backup_outbound_proxy_server_port	Enter the port number that the backup outbound proxy server will use. This is usually 5060.	0–65535	5060

Audio Settings

Setting	Description	Range	Default
Ringer Tone `user_pref.line.x.ringer`	Sets the ringer tone for incoming calls on the account.	Tone 1–10	Tone 1
Codec Priority 1 `sip_account.x.codec_priority.1`	Select the codec to be used first during a call.	G.711a, G.711u, G.729, G.726, G.722	G.711u
Codec priority 2 `sip_account.x.codec_priority.2`	Select the codec to be used second during a call in the event near-end and far-end cannot negotiate the first codec.	None, G.711a, G.711u, G.729, G.726, G.722	G.711a
Codec priority 3 `sip_account.x.codec_priority.3`	Select the codec to be used third during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.729
Codec priority 4 `sip_account.x.codec_priority.4`	Select the codec to be used fourth during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.726
Codec priority 5 `sip_account.x.codec_priority.5`	Select the codec to be used fifth during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.722
Enable voice encryption (SRTP) `sip_account.x.voice_encryption_enable`	Select to enable secure RTP for voice packets.	0: disable 1: enable	0

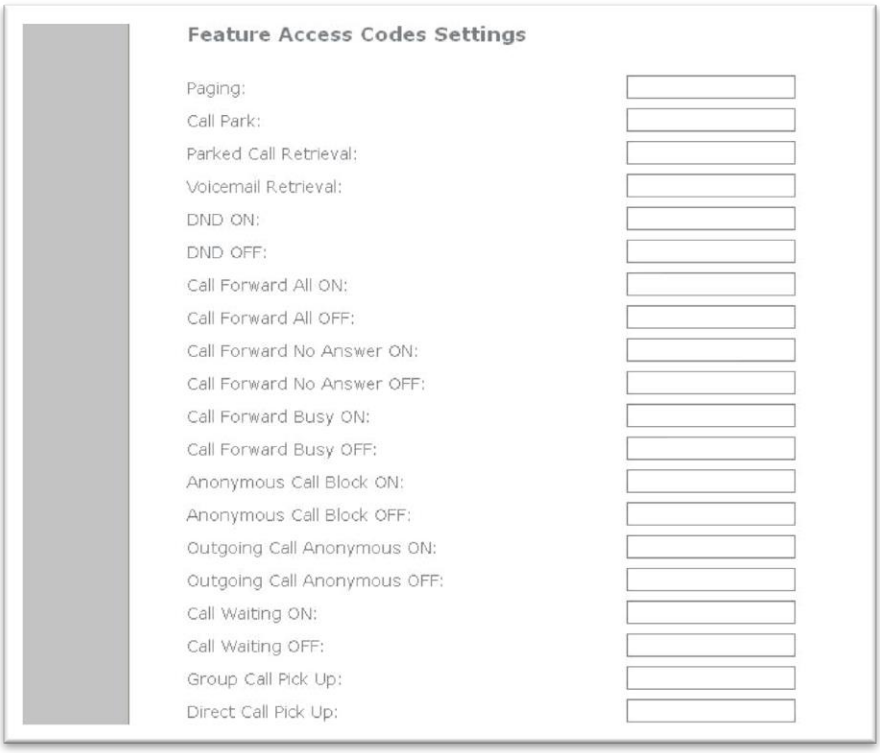
Quality of Service

Setting	Description	Range	Default
DSCP (voice) `sip_account.x.voice_dscp`	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch. A 6-bit value is supported.	0-63	46
DSCP (signalling) `sip_account.x.signaling_dscp`	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch. A 6-bit value is supported.	0-63	26

Signaling Settings

Setting	Description	Range	Default
Local SIP port `sip_account.x.local_sip_port`		0–65535	5060

Transport sip_account.x.transport_mode	Select the SIP transport protocol. TCP (Transmission Control Protocol) is the most reliable protocol and includes error checking and delivery validation. UDP (User Datagram Protocol) is generally faster but SIP data may be subject to network congestion. TLS (Transport Layer Security) transport requires security certificates to establish a secure connection between phone and server. You must upload one or more trusted certificates and a server certificate to the phone. See **Servicing > Certificates** on the WebUI and consult your service provider.	Tls, tcp, udp	udp



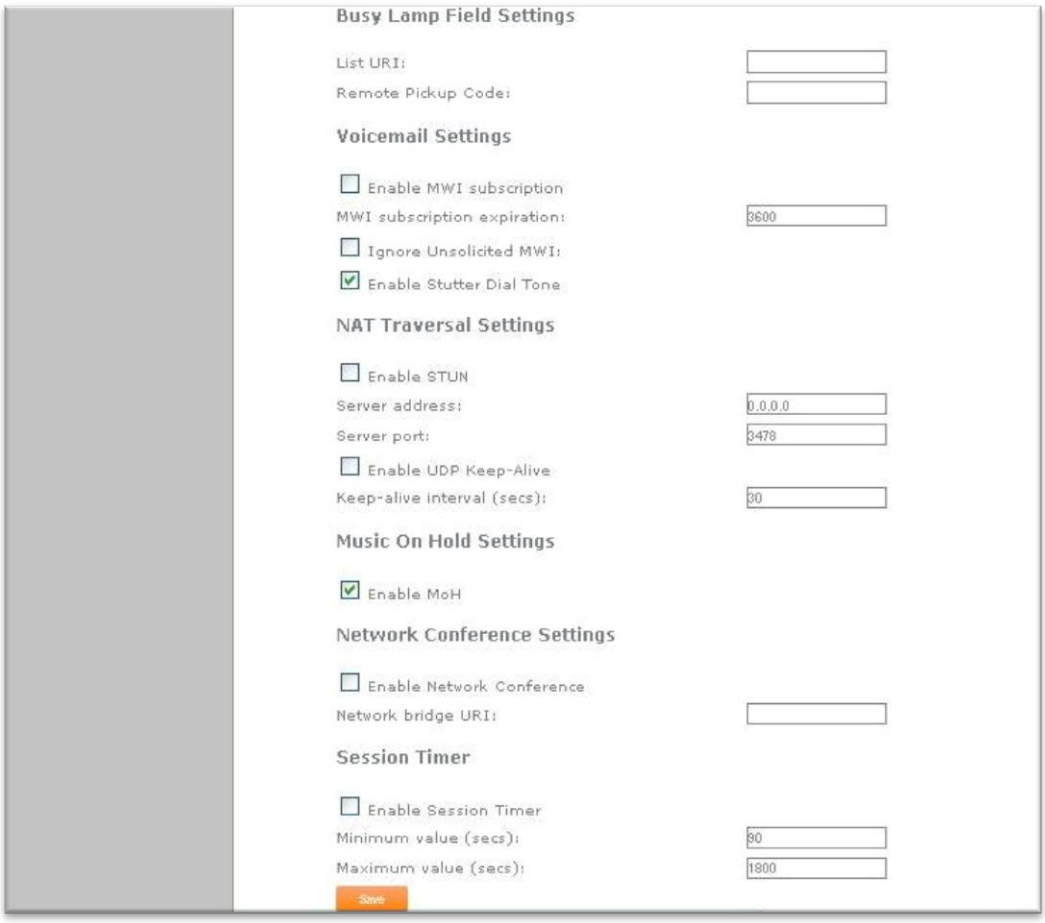
Feature Access Codes Settings

If your IP PBX service provider uses feature access codes, then enter the applicable codes here. You can assign many of these features to programmable keys, which enables end users to press the keys to dial out the codes you enter here.

Setting	**Description**	**PFK available?**
Paging sip_account.x.access_code_page	Enter the paging access code.	Yes
Call Park	Enter the call park access	Yes

sip_account.x.access_code_park_call	code.	
Parked Call Retrieval sip_account.x.access_code_retrieve_parked_call	Enter the call park retrieval access code.	Yes
Voicemail Retrieval sip_account.x.access_code_retrieve_voicemail	Enter the voicemail retrieval access code. The code is dialed when the user selects a line from the Features > Message menu.	Yes
DND ON sip_account.x.access_code_dnd_on		Yes
DND OFF sip_account.x.access_code_dnd_off		Yes
Call Forward All ON sip_account.x.access_code_cfa_on		Yes
Call Forward All OFF sip_account.x.access_code_cfa_off		Yes
Call Forward No Answer ON sip_account.x.access_code_cfna_on		Yes
Call Forward No Answer OFF sip_account.x.access_code_cfna_off		Yes
Call Forward Busy ON sip_account.x.access_code_cfb_on		Yes
Call Forward Busy OFF sip_account.x.access_code_cfb_off		Yes
Anonymous Call Block ON sip_account.x.access_code_anonymous_call_block_on		No
Anonymous Call Block OFF sip_account.x.access_code_anonymous_call_block_off		No
Outgoing Call Anonymous ON sip_account.x.access_code_outgoing_call_anonymous_on		No
Outgoing Call Anonymous OFF sip_account.x.access_code_outgoing_call_anonymous_off		No
Call Waiting ON		No

sip_account.x.access_code_call_waiting_on		
Call Waiting OFF sip_account.x.access_code_call_waiting_off		No
Group Call Pick Up sip_account.x.access_code_group_call_pickup	Enter the Group Call Pickup code. Dialing the code enables the user to answer a call ringing at another deskset that is part of the same group.	Yes
Direct Call Pick Up sip_account.x.access_code_direct_call_pickup	Enter the Group Call Pickup code. Dialing the code enables the user to answer a call ringing at another deskset.	Yes



Busy Lamp Field Settings

Setting	Description	Range	Default
List URI sip_account.x.blf_list_uri	Used for list-based BLF Enter the BLF list URI, as supplied by or set up with your service provider. For example, *blf-list1@sipservice.com*. This list contains a list of extensions that are eligible for BLF monitoring. You can assign keys for BLF monitoring on the Programmable Keys page. See page 39.	Sip URI	blank
BLF Subscription Expiration sip_account.x.blf_subscription_expires	Enter desired BLF subscription duration in seconds. It is normally 3600 sec	15-65535	3600
Remote Pickup Code sip_account.x.blf_remote_pickup_code	Enter the remote pickup code for the BLF list, as supplied by your service provider.	string	blank

Voicemail Settings

Setting	Description	Range	Default
Enable MWI Subscription sip_account.x.mwi_enable	When enabled, the line subscribes to the "message summary" event package. The line may use the User ID and authentication or the service provider's "Mailbox ID". When disabled, the line receives any "message summary" notifications if the message header contains the account User ID. Consult your service provider.	0: disable 1: enable	0
MWI Subscription Expiration sip_account.x.mwi_subscription_expires	Enter desired "message summary" subscription duration in seconds. It is normally 3600 sec	15-65535	3600
Mailbox ID sip_account.x.mwi_uri	Enter the uri the phone should use to subscribe to "message summary" notifications. If empty, Voicemail retrieval access code will be used for this purpose.	SIP URI	blank

Ignore unsolicited MWI `sip_account.x.mwi_ignore_unsolicited`	When enabled, only notifications pertaining to the active "message summary" subscription will be considered as valid to compute MWI status.	0: disable 1: enable	0
Enable Stutter Dial Tone `sip_account.x.stutter_dial_tone_enable`	Enables or disables the stutter dial tone for that line (indicating message(s) waiting) when the phone goes off hook.	0: disable 1: enable	1

NAT Traversal Settings

Setting	Description	Range	Default
Enable STUN `sip_account.x.nat_traversal_stun_enable`	Enables or disables STUN mechanism to allow sip communications in NATted environments.	0: disable 1: enable	0
Server address `sip_account.x.nat_traversal_stun_server_address`	Enter the stun server address or fqdn	IP address or fqdn	blank
Server port `sip_account.x.nat_traversal_stun_server_port`	Enter the port the STUN server is using. Normally it will be 3478	0-65535	3478
Enable UDP Keep-Alive `sip_account.x.nat_traversal_udp_keep_alive_enable`	Enables or disables UDP keepalive on this account—this mechanisms periodically sends a UDP packet on the sip port to keep this port open on the NAT device.	0: disable 1: enable	0
Keep-alive interval (secs) `sip_account.x.nat_traversal_udp_keep_alive_interval`	Enter the time in seconds between UDP keepalive messages.	0-65535	30

Music On Hold Settings

Setting	Description	Range	Default
Enable MoH `sip_account.x.music_on_hold_enable`	Enables or disables a local tone played when the phone is put on hold by the remote party. The interval between tones can be controlled with "Call Hold Reminder tone", in User Preferences section	0: disable 1: enable	1

Network Conference Settings

Setting	Description	Range	Default
Enable Network Conference `sip_account.x.network_conference_enable`	Enables or disables conferences being controlled and mixed by a conference server, also called Network Bridge. When disabled, the phone will create the conference locally, without the need for a conference server.	0: disable 1: enable	0
Network Bridge URI `sip_account.x.network_bridge_uri`	Enter the URI to direct the phone to the network bridge for each line.	SIP URI	blank

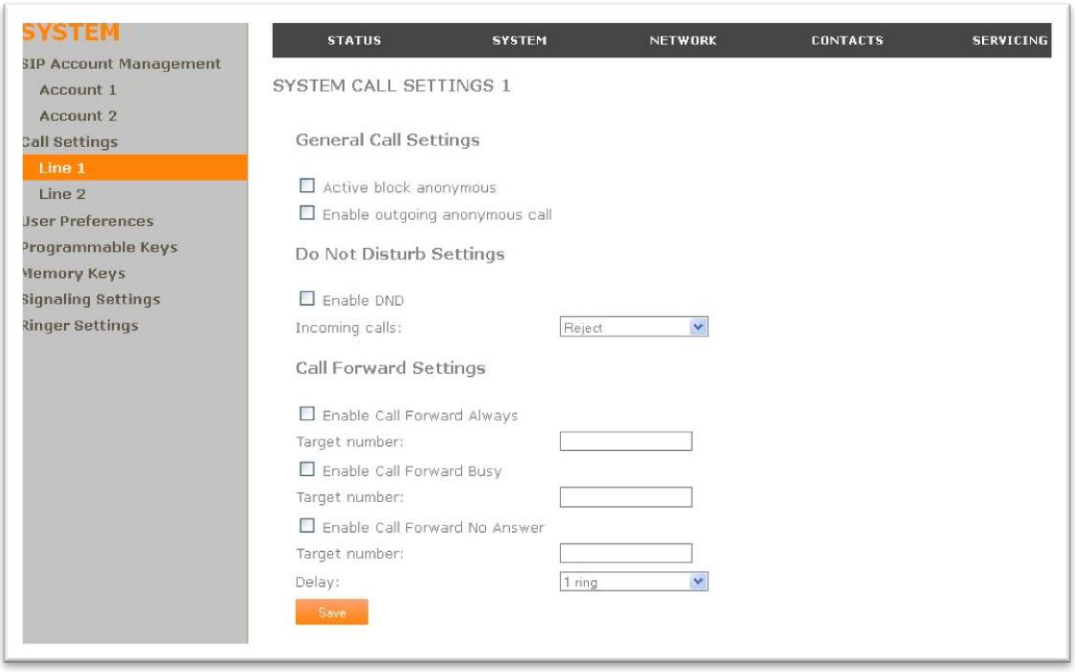
Session Timer

Setting	Description	Range	Default
Enable Session Timer `sip_account.x.sip_session_timer_enable`	Enables or disables sip "timer" mechanism, which allows session monitoring	0: disable 1: enable	0
Minimum value (secs) `sip_account.x.sip_session_timer_min`	Enter the value of the "Min S-E" header, i.e., the minimum interval the phone is willing to use for monitoring the session	90-65535	90
Maximum value (secs) `sip_account.x.sip_session_timer_max`	Enter the maximum interval the phone is willing to use for monitoring the session.	90-65535	1800

Call Settings

You can configure call settings for each line. Call Settings include Do Not Disturb and Call Forward settings.

When you have finished changing settings on this page, click **Save** to save them.



General Call Settings

Setting	Description	Range	Default
Active block anonymous `call_settings.line.x.block_anonymous_enable`	Blocks calls with no caller ID.	0: disable 1: enable	0
Enable outgoing anonymous call `call_settings.line.x.outgoing_anonymous_enable`	When enabled, the phone will ask the server to hide its identity in outgoing calls	0: disable 1: enable	0

Do Not Disturb Settings

Setting	Description	Range	Default
Enable Do Not Disturb `call_settings.line.x.dnd_enable`	Turns Do Not Disturb on or off.	0: disable 1: enable	0
Incoming Calls `call_settings.line.x.dnd_incoming_calls`	Selects whether the phone displays incoming call information while Do Not Disturb is on. The phone will not ring in either mode.	show, reject	reject

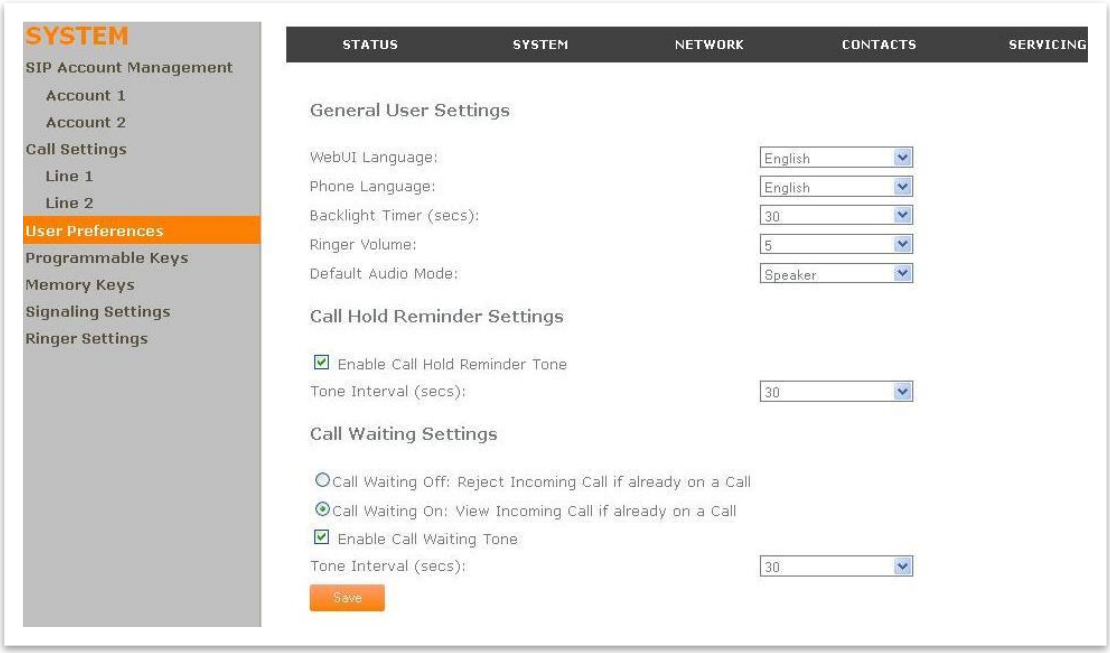
Call Forward Settings

Setting	Description	Range	Default
Enable Call Forward Always `call_settings.line.x.call_fwd_always_enable`	Enables or disables call forwarding for all calls on that line. Select to enable.	0: disable 1: enable	0
Target Number `call_settings.line.x.call_fwd_always_target`	Enter a number to which all calls will be forwarded.	string	blank
Enable Call Forward Busy `call_settings.line.x.call_fwd_busy_enable`	Enables or disables call forwarding for calls when you are on another call on that line.	0: disable 1: enable	0
Target Number `call_settings.line.x.call_fwd_busy_target`	Enter a number to which calls will be forwarded when the line is busy.	string	blank
Enable Call Forward No Answer `call_settings.line.x.cfna_enable`	Enables or disables call forwarding for unanswered calls on that line.	0: disable 1: enable	0
Target Number `call_settings.line.x.cfna_target`	Enter a number to which unanswered calls will be forwarded.	string	blank
Delay `call_settings.line.x.cfna_delay`	Select the number of rings before unanswered calls are forwarded.	1-10 (rings)	6
Enable Missed calls alert `call_settings.missed_call_alert_enable`	Enables or disables missed call indication on the phone screen	0: disable 1: enable	1

User Preferences

On the User Preferences menu, you can configure some basic settings for the phone and set how the phone responds to calls.

After changing any settings on this page, click **Save** to save them.



General User Settings

Setting	Description	Range	Default
WebUI Language `user_pref.language`	Sets the language that appears on the WebUI.	en: English fr: French es: Spanish de: German it: Italian pt: Portuguese nl: Dutch	en
Phone Language `user_pref.language`	Sets the language that appears on the phone.	en: English fr: French es: Spanish de: German it: Italian pt: Portuguese nl: Dutch	en

Backlight Timer (secs.) `user_pref.backlight_timeout`	Sets how long the screen backlight stays on after the last button press.	10-60 (seconds)	30
Ringer Volume `user_pref.ringer_volume`	Sets the ringer volume for incoming calls. You can also use the **VOLUME** ▼ or ▲ keys on the deskset.	0–9 (0 means off)	5
Default Audio Mode `user_pref.audio_mode`	Sets how calls are answered when you press a line key or Answer.	speaker, headset	speaker

Call Hold Reminder Settings

Setting	Description	Range	Default
Enable Call Hold Reminder Tone `user_pref.hold_reminder.enable`	Enables or disables the call hold reminder tone. This tone periodically warns the user that he has previously put a call on hold. Select to enable.	0: disable 1: enable	1
Tone Interval (secs) `user_pref.hold_reminder.interval`	Sets the interval for the call hold reminder tone.	10–300 (seconds)	30

Call Waiting Settings

Setting	Description	Range	Default
Enable Call Waiting Tone `user_pref.call_waiting.tone_enable`	Enables or disables the call waiting tone. Select to enable.	0: disable 1: enable	1
Call Waiting Tone Interval (secs.) `user_pref.call_waiting.tone_interval`	Sets the interval in seconds for the call waiting tone.	10–60 (seconds)	30
Call Waiting on/off `user_pref.call_waiting.mode`	Accepts or rejects incoming call notification screen while the user is already on a call. Only one of the two radio buttons can be selected. If set to "enable", the waiting call is presented to the user If set to "reject", the phone will send an error response to the server	enable, reject	enable
LCD Contrast Level	Sets the contrast for the LCD	1–7	4

user_pref.lcd_constrast	display.		
Backlight level (non idle) user_pref.backlight	Enables or disables the backlight for non idle mode, i.e, during user operation.	0: disable 1: enable	1
Backlight level (idle) user_pref.idle_backlight	Enables or disables the backlight in idle state.	0: disable 1: enable	0
Live dial to idle timeout (secs.) user_pref.absent_timeout	Sets the timeout (in seconds) after which live dial interface will return to idle if there are no more dialled digits.	10–60 (seconds)	30
Handsfree volume user_pref.speaker_volume	Sets speaker volume for handsfree calls.	1-10	5
Headset volume user_pref.headset_volume	Sets headset volume.	1-10	5
Corded Handset volume user_pref.handset_volume	Sets handset volume.	10–60 (seconds)	30
Enable Key beep user_pref.key_beep_enable	Enables or disables the beep played when a key is pressed.	0: disable 1: enable	1

Programmable Keys

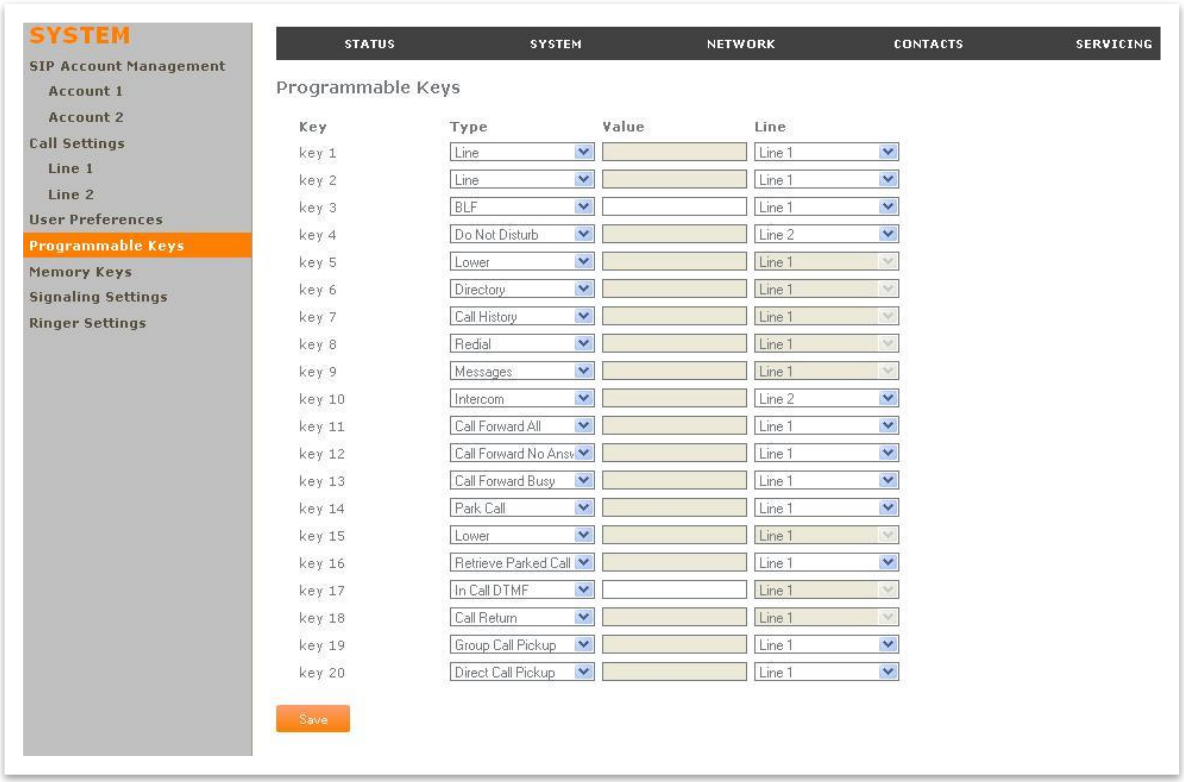
Temporis IP150 has 10 dual-function programmable keys. The five keys on the left have a dual-color backlight (orange and green)

Keys are numbered top to bottom, and left to right.

You can assign up to 20 functions to the programmable keys on the Programmable Keys page.

You can select one option for each key. Keys can have identical functions. For example, you can assign several keys "Line" keys for Line 1 to enable users to manage multiple calls on Line 1. You can also assign multiple Quick Dial keys.

Depending on the feature, you may need to select also the line (account) for which it is applicable and some value.



Type	Description	Parameters

Line	Configures the key for accessing a line (or SIP account). Users can make or answer calls by pressing these keys. The key LED will change according to call activity.
	After selecting Line in the **Type** column, select the Line number in the **Line** column.
		`pfk.x.feature = line`
		`pfk.x.line_number = 1 or 2`
		`(x: 1-20, function key number)`

Directory	Configures the key to access the Directory menu. Users can then press the key to view the Directory menu.	`pfk.x.feature = dir` `(x: 1-20, function key number)`
Call History	Configures the key to access the Call History list. Users can then press the key to view the Call History	`pfk.x.feature = call log` `(x: 1-20, function key number)`

	list.	
Redial	Configures the key to access the Redial list. Users can then press the key to view the Redial list.	pfk.x.feature = redial (x: 1-14 and 16-20, function key number)
Messages	Configures the key to access the Message menu. Users can then press the key to view the Message menu.	pfk.x.feature = messages (x: 1-14 and 16-20, function key number)
Do Not Disturb	Configures the key to turn Do Not Disturb on or off. Select the line for which you want to set the feature. The key is lit orange when DND is on.	pfk.x.feature = dnd pfk.x.line_number = 1 or 2 ((x: 1-14 and 16-20, function key number)
Call Forward All	Configures the key to turn Call Forward All on or off. In the Line column, select the line for which Call Forward All will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	pfk.x.feature = cfwd all pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Call Forward Busy	Configures the key to turn Call Forward Busy on or off. In the Line column, select the line for which Call Forward Busy will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	pfk.x.feature = cfwd busy pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Call Forward No Answer	Configures the key to turn Call Forward No Answer on or off. In the Line column, select the line for which Call Forward No Answer will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	pfk.x.feature = cfwd no answer pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Park Call	Enables the user to park a call. Pressing the key dials the Call Park feature access code (FAC) configured on the Account Settings page. In the Line column, select the line (sip account) on which the feature access code will be dialed out. For example, choose Line 1 if you wish to use the Call Park FAC that you entered for account 1.	pfk.x.feature = park call pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Retrieve Park Call	Enables the user to retrieve a parked call. Pressing the key dials the Parked Call Retrieval feature access code (FAC) configured on the Account Settings page. In the Line column, select the line on which the feature access code will be dialed out. For example, choose Line 1 if you wish to use the Parked Call Retrieval FAC that you entered for account 1.	pfk.x.feature = retrieve parked call pfk.x.line number = 1 or 2 (x: 1-14 and 16-20, function key number)

Quick Dial	Configures the key to dial a number on the selected line. After selecting Quick Dial, enter the number to be dialed in the Value column. In the Line column, select the line on which the number will be dialed out.	pfk.x.feature = quick dial pfk.x.line_number = 1 or 2 pfk.x.quick_dial = (x: 1-14 and 16-20, function key number)
BLF (Busy Lamp Field)	Configures the key to monitor another extension. In the Value column, enter the URI of the extension you want to monitor with this key. For example, *6045552001@sipservice.com*. If you are using list based BLF, the URI must be from the BLF list you set up with your service provider and entered under "Busy Lamp Field Settings" under SIP Account Management.	pfk.x.feature = busy lamp field pfk.x.line number = 1 or 2 pfk.x.blf= (x: 1-5 and 11-15, function key number)
In Call DTMF	Configures the key to dial a string of numbers while the end user is on a call. For example, pressing the key might dial a conference access code. After selecting In Call DTMF, enter the number to be dialed in the Value column.	pfk.x.feature = in call dtmf pfk.x.incall_dtmf = (x: 1-14 and 16-20, function key number)
Call return	Configures the key to dial the number of the last missed call.	pfk.x.feature = callback (x: 1-14 and 16-20, function key number)
Intercom	Configures the key to call one or a group of phones. You can configure Intercom calls to be automatically answered. See "Page Auto Answer" under General Account Settings.	pfk.x.feature = page pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Group Call Pickup	Enables the user to answer a call ringing at another extension. The call can be ringing at any extension in the phone's call pickup group. Pressing the key dials the Group Call Pickup feature access code (FAC) configured on the Account Settings page.	pfk.x.feature = group call pickup pfk.x.line_number = 1 or 2 (x: 1-14 and 16-20, function key number)
Direct Call Pickup	Enables the user to answer a call ringing at a specific deskset. Pressing the key dials the Direct Call Pickup feature access code (FAC) configured on the Account Settings page. Depending on the server requirements, the user may then need to enter the number of the ringing extension.	pfk.x.feature = direct call pickup pfk.x.line number = 1 or 2 (x: 1-14 and 16-20, function key number)
N/A	The programmable key has no function assigned	pfk.x.feature = unassigned pfk.x.line number = 1 or 2 (x: 1-14 and 16-20, function key number)
Access to F11-F20 (Lower)	This function allows the user to switch between the default function key group (F1 to F10) and the second (F11 to F20). F15 can **only** be used for this function.	pfk.5.feature = lower pfk.15.feature = lower

	F5 has to be configured for this function as well if all programmable keys are needed. If F5 has any other function, then only F1 to F10 will be available. When F5/F15 are configured to "Access F11-F20", the meaning of the led will be as follows: Orange: F11-F20 are active. If user presses the key on the left topmost position, F11 wil be triggered Off: F1-F10 are active. If user presses the key on the left topmost position, F1 wil be triggered	

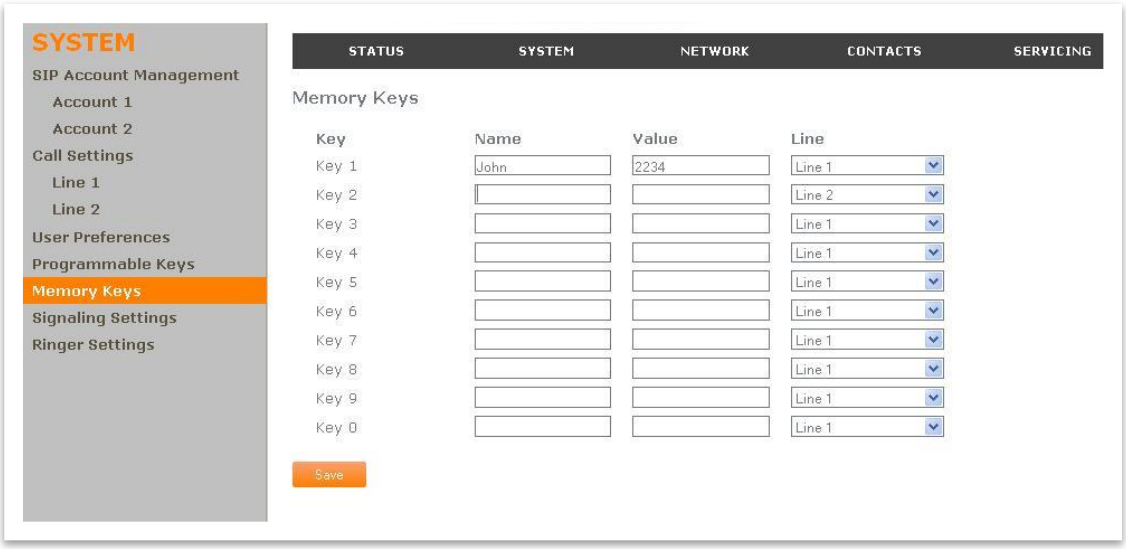
Memory Keys: Speed Dial

On the Speed Dial page, you can enter up to 10 speed dial numbers. For each speed dial number you enter, you must assign the line on which the number will be dialed out.

To dial a speed dial number, press and hold the dial pad key that matches the speed dial entry number. When for entry 10, press 0).

Note: This menu duplicates the speed dial menu on the phone (**Main Menu > Features > Speed dial**). Entries that are entered and saved on the WebUI replace entries that were entered using the phone, and viceversa.

Note: You can also assign programmable function keys to be quick dial keys, but users cannot add or edit phone numbers for these keys. The Memory Keys page is primarily intended for users to enter numbers that they personally want to dial often.



To enter speed dial numbers:

1. In the **Name** column, enter the name associated with this speed-dial entry.
2. In the **Value** column, enter a phone number for the desired key.
3. In the **Line** column, select the line that this speed dial number will use.
4. Click Save.

Speed Dial Keys

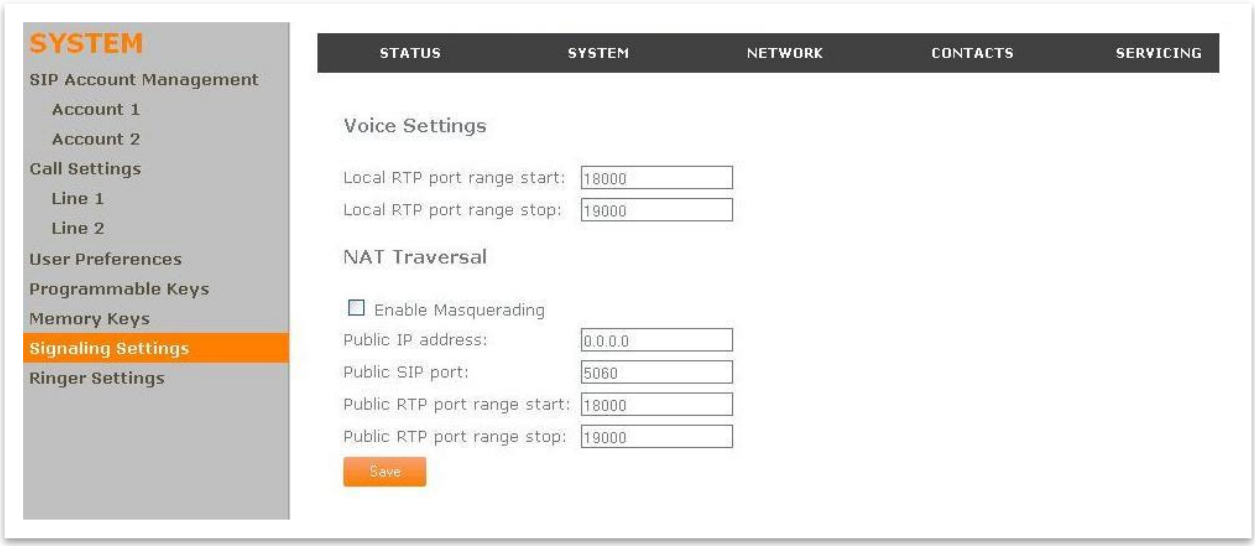
Setting	Description	Range	Default

Name Value
`memory_key.x.name`
`( x: 0-9)`
	A name associated to this memory key.	string	blank

Number Value
`memory_key.x.number`
`(x: 0-9)`
	The phone number that the memory key dials when pressed and held.	SIP URI	blank

Line
`memory_key.x.line`
`(x: 0-9)`
	The SIP account (line) the phone will use to dial the number.	1: Line 1
		2: Line 2
			1

Signaling Settings



Voice Settings

Setting	Description	Range	Default
Local RTP port range start `network.rtp.port_start`	Real-time Transport Protocol (RTP) Ports are entered as a range. This range is usually specified by your service provider. Enter the lower limit of the RTP port range.	0-65535	18000
Local RTP port range stop `network.rtp.port_end`	Enter the upper limit of the RTP port range.	0-65535	19000

NAT Traversal

Setting	Description	Range	Default
Enable Masquerading `network.nat.masquerading_enable`	Select to enable NAT traversal via IP masquerading.	1: Enabled 0: Disabled	0
Public IP address `network.nat.public_ip_addr`	Enter the external IP address of your router. Your router needs a static IP address for IP masquerading to work.	IP address	n/a
Public SIP port `network.nat.public_sip_port`	Enter the router port number being used for SIP.	0-65535	5060

Public RTP port range start network.nat.public_rtp_port_start	Real-time Transport Protocol (RTP) Ports are entered as a range. This range is usually specified by your service provider. Enter the lower limit of the RTP port range.	0-65535	18000
Public RTP port range stop network.nat.public_rtp_port_end	Enter the upper limit of the RTP port range.	0-65535	19000

Ringer Settings

The Ringer Settings enable you to provide a distinctive ringing feature via the custom Alert-Info header associated with an incoming call. This setting overrides the ringer tone you have set for the account. For example, you can set a unique ringer tone to alert the deskset user upon receiving any incoming calls tagged as "important" or "External" in the Alert-Info header.

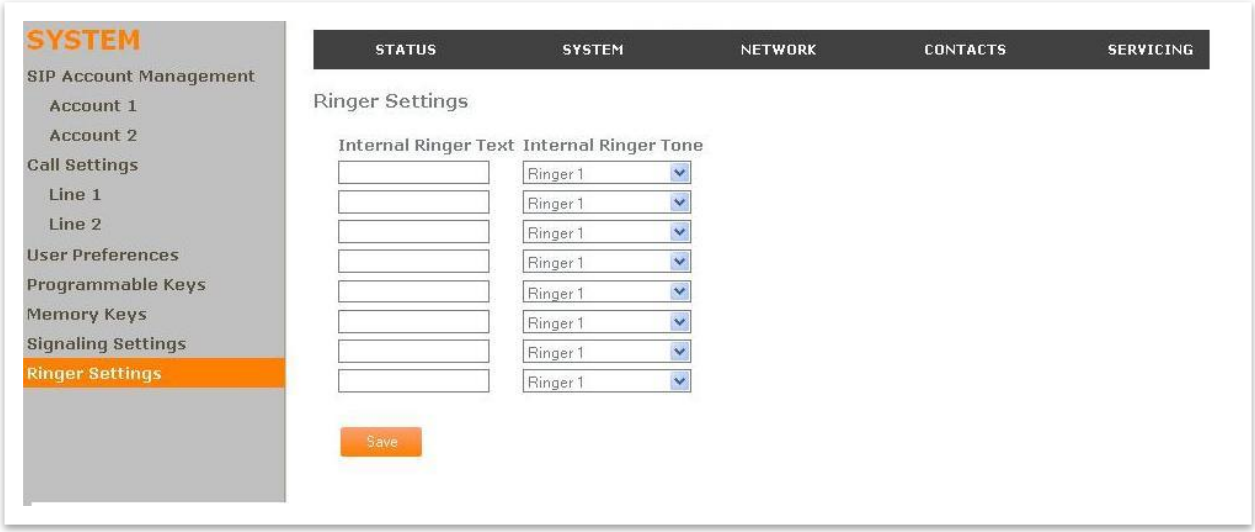
The SIP Invite message contains an Alert-Info header that the phone checks in order to determine which ringer tone to play. The Alert-Info header format is as follows:

```
Alert-Info: info=info_text
```

If the header contains the "info" parameter, the phone attempts to match it to the Internal Ringer Text. If there is a match, the Internal Ringer Tone will play. If there is no match, the default tone for the account will play.

The matching is done on a "first match" basis. In the case of duplicate text strings, the ringer tone associated with the first matched entry in the Internal Ringer Text list will play.

The server-side configuration must be done with your service provider. This is where the SIP Invite text ("Internal Ringer Text") will be derived.

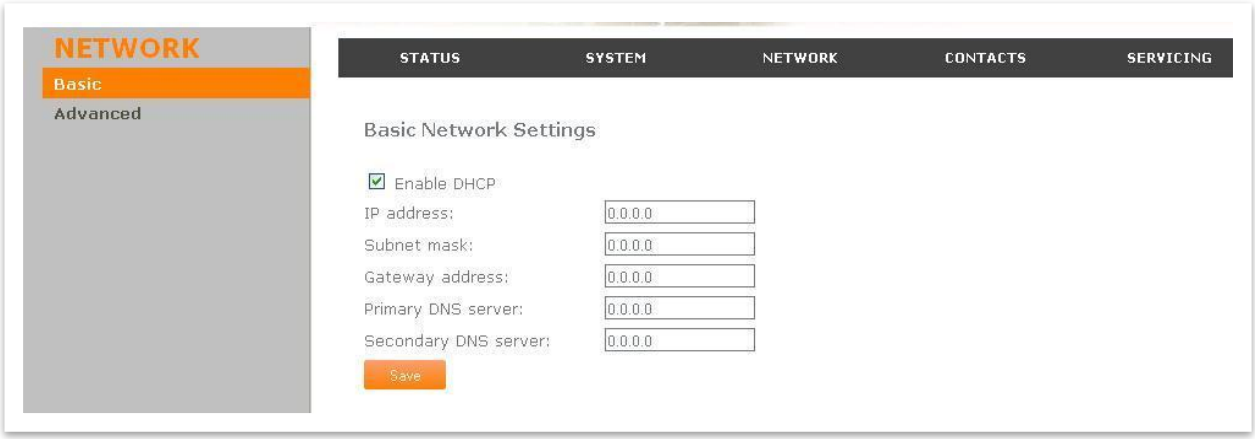


Setting	Description	Range	Default
Internal Ringer Text `ringersetting.x.ringer_text (x= 1-8)`	Enter the text that will match the "info" parameter and play the ringer tone. The matching of the "info" parameter and Internal Ringer Text is case sensitive. The maximum length of the Internal Ringer Text is 40 characters.	String, up to 40 characters	blank
Internal Ringer Tone `ringersetting.x.ringer_type (x=1-8)`	Select the desired ringer from the list.	Ringer 1 to – Ringer 10 (1-10)	1

Network

You can set up the phone for your network configuration on the Network settings page. Your service provider may require you to configure your network to be compatible with its service, and the phone settings must match the network settings.

Basic Network Settings



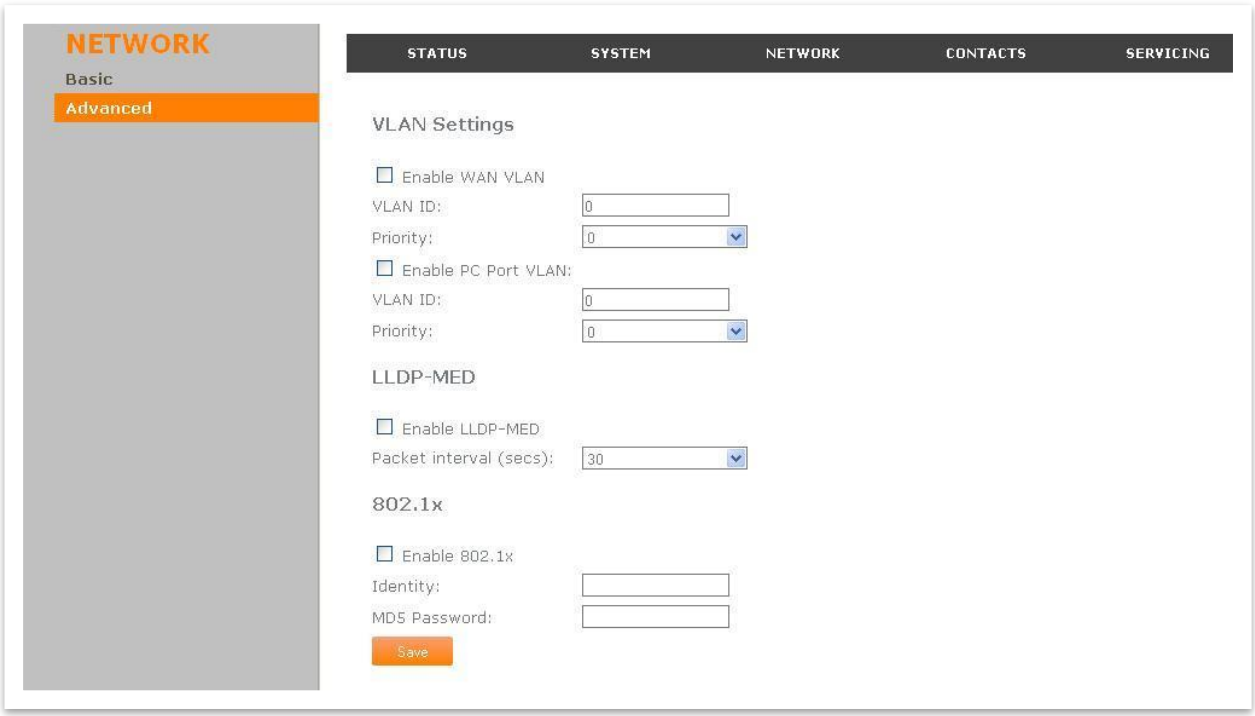
Note: If you disable DHCP on this page, you must configure static IP settings for the phone. You must be familiar with TCP/IP principles and protocols to configure static IP settings.

Basic Network Settings

Setting	Description	Range	Default
Enable DHCP `network.ip.dhcp_enable`	DHCP is selected (enabled) by default, which means the deskset will get its IP address from the network. When DHCP is disabled, you must enter a static IP address for the deskset.	1: Enabled, 0: Disabled	1
IP Address `network.ip.static_ip_addr`	If DHCP is disabled, enter a static IP address for the deskset.	IPv4	blank
Subnet Mask `network.ip.subnet_mask`	Enter the subnet mask.	IPv4	blank
Gateway Address `network.ip.gateway_addr`	Enter the static IP address of the default gateway (in this case, your router).	IPv4	blank
Primary DNS Server `network.ip.dns1`	If DHCP is disabled or you don't wish to use the DHCP-assigned	IPv4	blank

Secondary DNS Server `network.ip.dns2`	DNS server (or one specified by your service provider), enter IP addresses for the primary and secondary DNS servers.		

Advanced Network Settings



VLAN Settings

You can organize your network and optimize VoIP performance by creating a virtual LAN for phones and related devices.

Setting	Description	Range	Default
Enable WAN VLAN `network.vlan.wan.enable`	Enable if the phone is part of a VLAN on your network. Select to enable.	0: Disabled 1: Enabled	0
VLAN ID `network.vlan.wan.id`	Enter the VLAN ID (vlan 5, for example).	0–4095	0
Priority `network.vlan.wan.priority`	Select the VLAN priority that matches the Quality of Service (QoS) settings that you have set for that VLAN ID. Outbound packets will be marked and sent according to their priority. 7 is the highest priority. Note: Configuring the Quality of Service (QoS) settings for your router or switch is a subject outside the scope of this document.	0–7	0

Enable PC Port VLAN network.vlan.pc.enable	Enable if the PC connected to your phone's PC port is part of a VLAN on your network. Select to enable.	0:Disabled 1: Enabled	0
VLAN ID network.vlan.pc.id	Enter the PC Port VLAN ID (vlan 5, for example).	0–4095	0
Priority network.vlan.pc.priority	Select the VLAN priority that matches the Quality of Service (QoS) settings that you have set for that VLAN ID. Outbound packets will be marked and sent according to their priority. 7 is the highest priority. Note: Configuring the Quality of Service (QoS) settings for your router or switch is a subject outside the scope of this document.	0–7	0

LLDP-MED

Setting	Description	Range	Default
Enable LLDP-MED network.lldp_med.enable	Enables or disables LLDP-MED on the phone. Select (enable) if your switch is LLDP-MED capable. Link Layer Discovery Protocol for Media Endpoint Devices (LLDP-MED) is a standards-based discovery protocol supported on some network switches. Amongst other functions, it enables network devices (such as switches) and endpoint devices (the deskset) to manage PoE, and assists administrators in tracking devices on the network.	0:Disabled 1: Enabled	0
Packet Interval (secs) network.lldp_med.interval	Enter here the interval in seconds between LLDP packets.	1–30	30

802.1x

Setting	Description	Range	Default
Enable 802.1x network.eapol.enable	Enables the 802.1X authentication protocol. This provides the phone with secure access to the network when an 802.1X compliant authentication server is used. Consult your service provider.	0:Disabled 1: Enabled	0

Identity `network.eapol.identity`	Integer	string	blank
MD5 Password `network.eapol.password`	MD5 password.	string	blank

Contacts

Local Directory

On the Local Directory page, you can manage your local directory entries. You can sort, edit, delete, and add contact information for up to 200 entries. In order to back up your contacts or import another local directory file, the page also allows you to export and import your phone's local directory.

The Local Directory lists entries on up to 10 pages, with 20 entries per page. Click Next, First, Last, or a page number to view the desired page of entries.

NOTE: You can also use the phone menu to manage local directory entries. For more information, see the Temporis IP150 IP Phone User Guide.

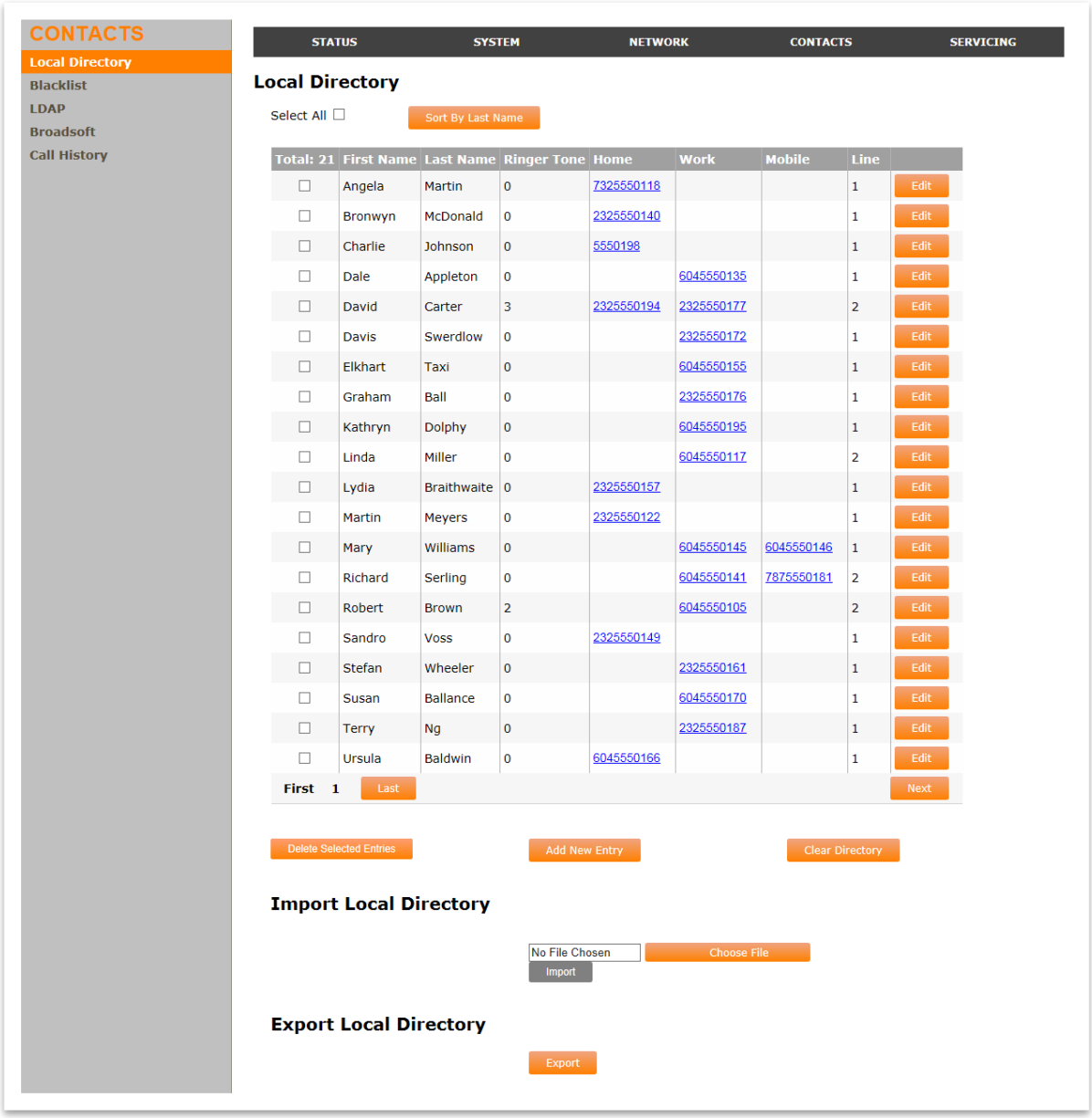
Directory Import/Export

The best way to create a directory file for import is to first export the directory from the phone using the "Export" button. After exporting the file, open it in an .xml editor and add or modify entries.

You can import your modified directory file by clicking on "Import" after browsing and selecting it.

Directory files are .xml files that have the following tags:

Local Directory WebUI field	**Directory file XML tag**
First Name	<DIR_ENTRY_NAME_FIRST>
Last Name	<DIR_ENTRY_NAME_LAST>
Home Number	<DIR_ENTRY_NUMBER_HOME>
Work Number	<DIR_ENTRY_NUMBER_WORK>
Mobile Number	<DIR_ENTRY_NUMBER_MOBILE>
Line	<DIR_ENTRY_LINE_NUMBER>
Call Block (not on WebUI)	<DIR_ENTRY_BLOCK>
Ringer Tone	<DIR_ENTRY_RINGER>



Note you can click on an entry to dial out this number. This feature can be enabled/disabled using configuration files, and is enabled by default. See next subchapter.

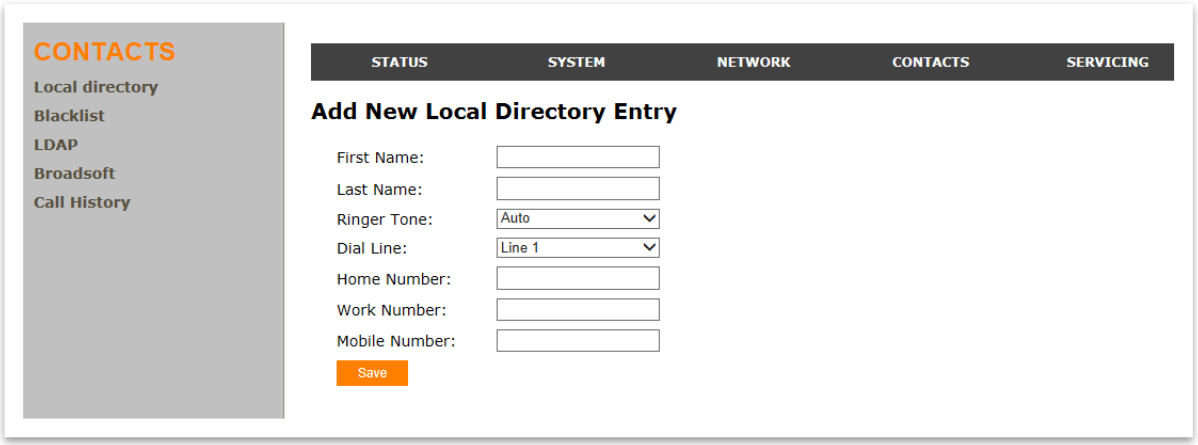
Click	To...
Sort by Last Name	Sort the list by last name.
Edit	Edit information for an entry
Last	View the last page of entries.
Next	View the next page of entries.

Delete Selected Entries	Delete selected entries from the directory. Click Select All to select every entry on the page you are viewing.
Add New Entry	Add a new directory entry.
Clear Directory	Delete all Directory entries.

To add a new directory entry:

1. Click Add New Entry.

   The Add New Local Directory Entry page appears.



2. Enter the required information. At minimum, a first and last name are required.

Create New Entry

Setting	Description	Range	Default
Call Block (not on WUI)	Blocks incoming calls with caller ID matching the directory entry.	Enable, Disable	Disable
First Name	Enter the appropriate names in these fields. The maximum length of the first name and last name fields is 15 characters.	n/a	blank
Last Name			
Ringer Tone	Sets a unique ringer tone for calls from this directory entry.	Auto, Tone 1–10	Tone 1
Dial Line	Sets the line used when you dial this directory entry.	Line 1–2	Line 1
Home Number	Enter the appropriate names and numbers in these fields.	string	blank
Work Number			
Mobile Number			

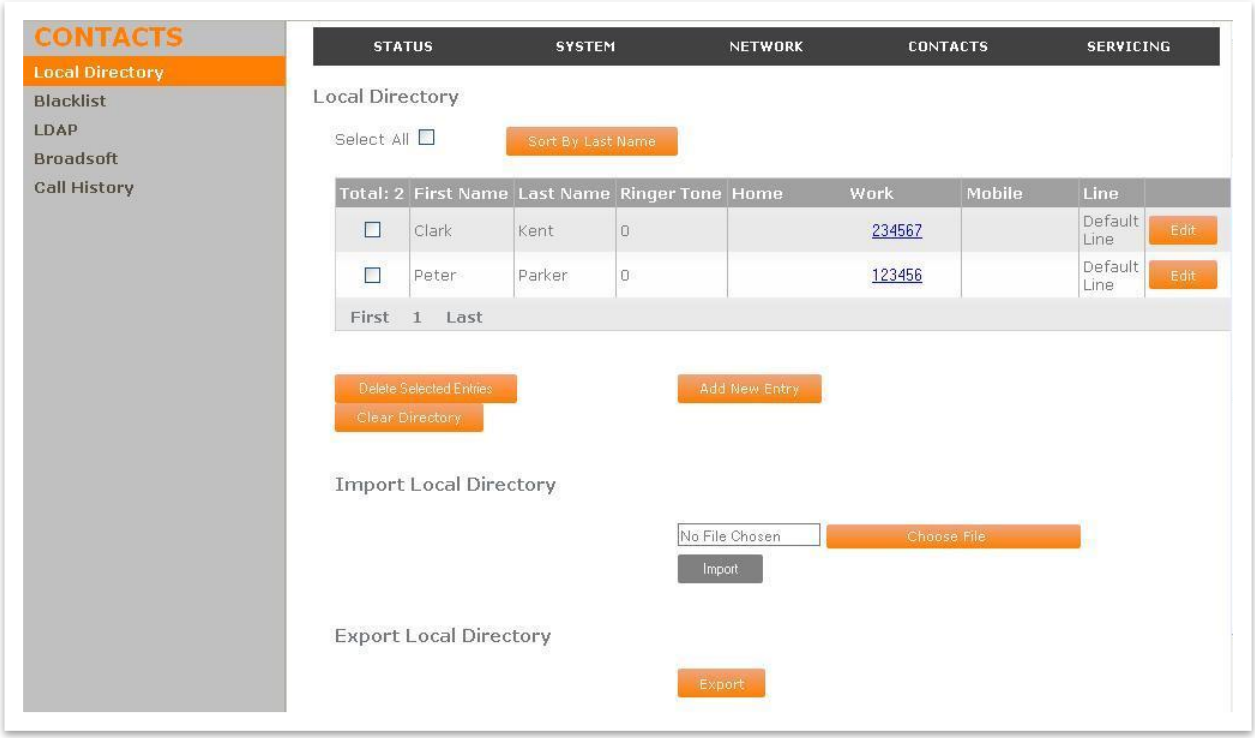
Directory Import using configuration files

You can also upload your local directory via configuration files. Related parameters are as follows:

Setting	Description	Range	Default
Contact Import url (append mode, not in WUI) `file.contact.directory.append`	Sets the url from which the phone will try to fetch the directory file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will be appended to existing entries.	URI	blank
Contact Import url (overwrite mode, not in WUI) `file.contact.directory.overwrite`	Sets the url from which the phone will try to fetch the directory file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will overwrite existing entries.	URI	blank
Click-to-dial (Not in WUI) `provisioning.click_to_dial`	Enables or disables the capability to dial a contact entry by clicking on it in the WUI.	0: Disabled 1: Enabled	1

Black List

On the Black List page, you can manage those contacts whose incoming calls you would like to block.



You can sort, edit, delete, and add contact information. In order to back up your blocked contacts or import others, the page also allows you to export and import your phone's black list.

The interface and modus operandi are similar to Local Directory, so we will only repeat relevant aspects here.

Black List Import/Export

The best way to create a black list file for import is to first export the directory from the phone using the "Export" button. After exporting the file, open it in an .xml editor and add or modify entries.

You can import your modified directory file by clicking on "Import" after browsing and selecting it.

Directory files are .xml files that have the following tags:

Black List WebUI field	**Black List file XML tag**
First Name	<BLACKLIST_ENTRY_NAME_FIRST>
Last Name	<BLACKLIST_ENTRY_NAME_LAST>

Black List WebUI field	Black List file XML tag
Home Number	<BLACKLIST_ENTRY_NUMBER_HOME>
Work Number	<BLACKLIST_ENTRY_NUMBER_WORK>
Mobile Number	<BLACKLIST_ENTRY_NUMBER_MOBILE>
Line	<BLACKLIST_ENTRY_LINE_NUMBER>

NOTE: You can also use the phone menu to manage your Black List. For more information, see the Temporis IP150 IP Phone User Guide.

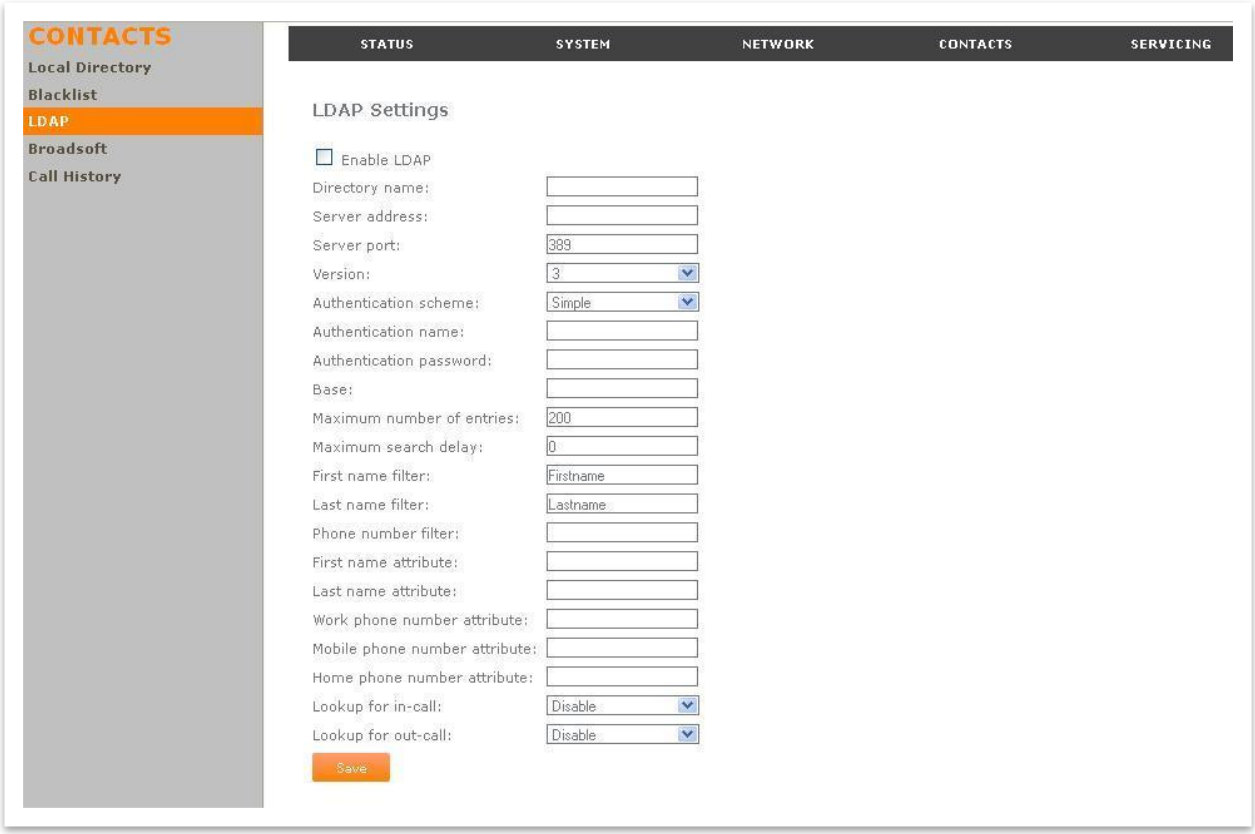
Black List Import using configuration files

You can also upload your local black list via configuration files during provisioning. Related parameters are as follows:

Setting	Description	Range	Default
Black List Import url (append mode, not in WUI) `file.contact.blacklist.append`	Sets the url from which the phone will try to fetch the black list file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will be appended to existing entries.	URI	blank
Contact Import url (overwrite mode, not in WUI) `file.contact.blacklist.overwrite`	Sets the url from which the phone will try to fetch the black list file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will overwrite existing entries.	URI	blank

LDAP Directory

On the LDAP page, you can configure your phone to use a remote LDAP directory server.



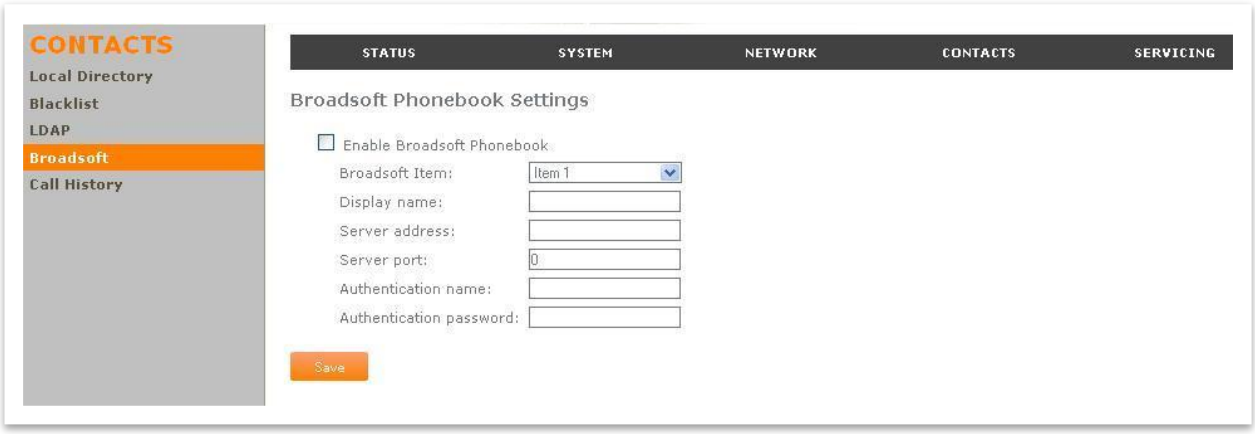
Setting	Description	Range	Default
Enable LDAP `remoteDir.ldap_enable`	Select to enable or disable LDAP remote directory	0: Disabled 1: Enabled	0
Directory Name `remoteDir.ldap_directory_name`	Enter the name to be displayed to the user when accessing LDAP directory through phone menu or programmable key.	string	blank
Server address `remoteDir.ldap_server_address`	Enter LDAP server IP address or fqdn.	string	blank
Server Port `remoteDir.ldap_server_port`	Enter remote LDAP server port. Normally 389.	0-65535	389

LDAP version remoteDir.ldap_protocol_version	Select protocol version (v2 or v3) your LDAP server uses.	version_2, version_3	version_2
Authentication scheme remoteDir.ldap_authentication_type	Select scheme your LDAP server uses to authenticate users.	simple, ssl	simple
Authentication name remoteDir.ldap_user_name	Enter name used to authenticate your phone as a user in front of the LDAP server.	string	blank
Authentication password remoteDir.ldap_password	Enter password to authenticate your phone as a user in front of the LDAP server.	string	blank
Base remoteDir.ldap_base	Enter base directory (distinguished name of the search base object) for LDAP searches.	string	blank
Maximum number of entries remoteDir.ldap_max_hits	Enter maximum number of search results to be displayed.	0-32000	200
Maximum search delay (seconds) remoteDir.ldap_search_delay	Enter timeout before displaying search results.	0-500	0
First name filter remoteDir.ldap_firstname_filter	Enter search criteria for first name look up (rfc2254).	string	blank
Last name filter remoteDir.ldap_lastname_filter	Enter search criteria for last name look up (rfc2254).	string	blank
Phone number filter remoteDir.ldap_number_filter	Enter search criteria for number look up (rfc2254).	string	blank
First name attribute remoteDir.ldap_firstname_attribute	Enter LDAP attribute the phone should use to display first names.	string	blank
Last name attribute remoteDir.ldap_lastname_attribute	Enter LDAP attribute the phone should use to display last names.	string	blank
Work phone number attribute	Enter LDAP attribute the phone should use to display work phone	string	blank

remoteDir.ldap_work_number_attributes	numbers.		
Mobile phone number attribute remoteDir.ldap_mobile_number_attributes	Enter LDAP attribute the phone should use to display mobile phone numbers.	string	blank
Home phone number attribute remoteDir.ldap_home_number_attributes	Enter LDAP attribute the phone should use to display home phone numbers.	string	blank
Lookup for in-call remoteDir.ldap_incall_lookup_enable	Select to enable or disable queries to the LDAP remote directory when an incoming call is received in order to find any Caller ID matches.	0: disabled 1: enabled	0
Lookup for out-call remoteDir.ldap_outcall_lookup_enable	Select to enable or disable queries to the LDAP remote directory while dialing in order to dynamically suggest users matching dialled digits.	0: disabled 1: enabled	0

Broadsoft Directory

On Broadsoft page, you can configure your phone to use a remote Broadsoft directory server.



Check with your service provider for more details.

Setting	Description	Range	Default
Enable Broadsoft Phonebook remoteDir.broadsoft_enable	Select to enable or disable Broadsoft remote directory	0: Disabled 1: Enabled	0
Broadsoft Item remoteDir.broadsoft_item	Enter Broadsoft item to be used.	item_1, item_2, item_6	item_1
Broadsoft display name remoteDir.broadsoft_display_name	Enter the name to be displayed to the user when accessing Broadsoft directory through phone menu or programmable key.	string	Blank
Server address remoteDir.broadsoft_server	Enter Broadsoft directory server IP address or fqdn.	string	Blank
Server port remoteDir.broadsoft_port	Enter Broadsoft directory server port	0-65535	0
Broadsoft authentication name remoteDir.broadsoft_user_name	Enter user name for authentication in front of Broadsoft directory server.	string	Blank
Broadsoft authentication password remoteDir.broadsoft_password	Enter password for authentication in front of Broadsoft directory server.	string	blank

Call History

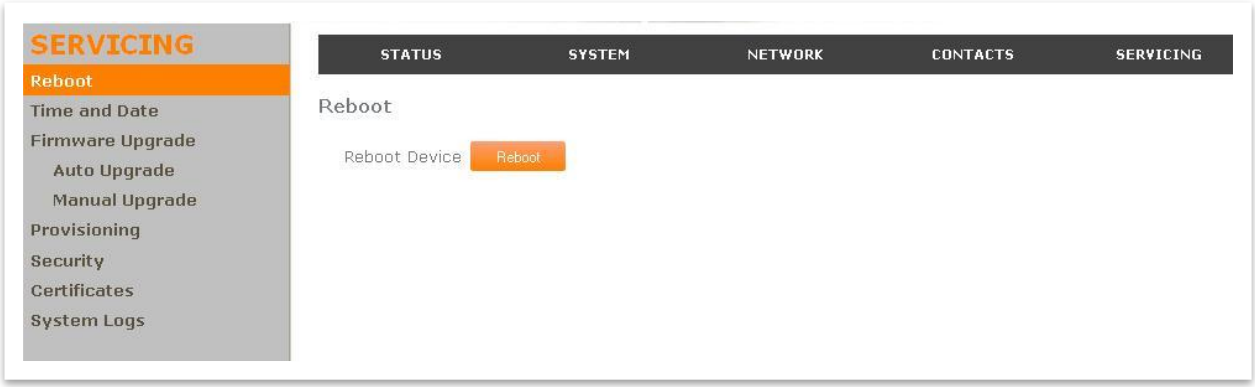
On Call History page you can review your call log details. Missed, received and dialled calls are shown in separate tables.

You can also click-to-call entries in these lists.

Servicing

Reboot

Reboot page allows you to perform a remote restart of your phone by clicking on the "Reboot" button.

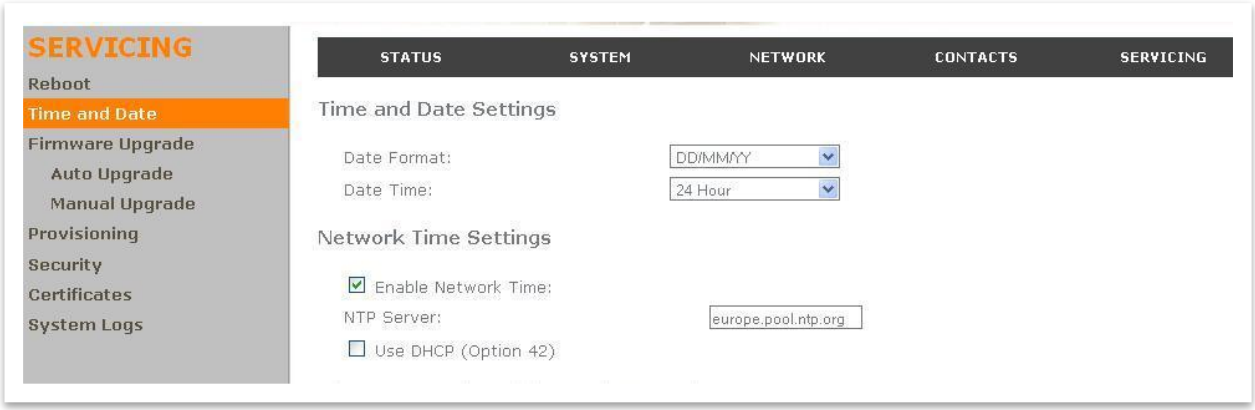


Restart can also be triggered via phone menu (Menu>>4.Admin settings>>5.Restart phone), or with the shortcut "Long press key"

Time and Date

On the Time and Date menu, you can manually set the time and date, and the time and date formats. You can also set the system time to follow a Network Time Protocol (NTP) Server (recommended) or you can set the time and date manually.

After changing any settings on this page, click **Save** to save them.

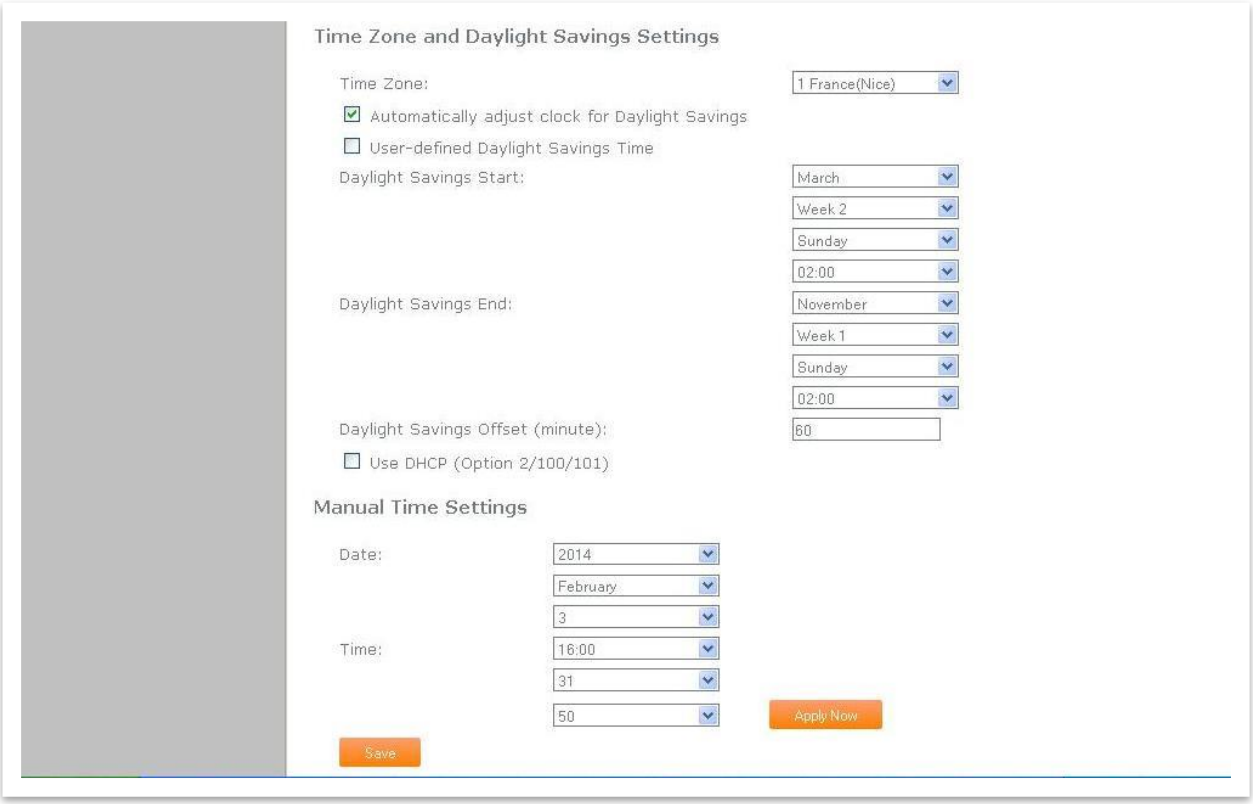


Time and Date Settings

Setting	Description	Range	Default
Date Format `time_date.date_format`	Sets the date format.	DD/MM/YY, MM/DD/YY, YY/MM/DD	DD/MM/YY
Time Format `time_date.24hr_clock`	Sets the clock format.	1: 24 Hour 0: 12 Hour	0

Network Time Settings

Setting	Description	Range	Default
Enable Network Time `time_date.ntp_server`	Enables or disables getting time and date information for your phone from the Internet.	1: Enabled 0: Disabled	1
NTP Server `time_date.ntp_server_addr`	If Enable Network Time is selected, enter the URL of your preferred time server.	IPv4 or fqdn	europe.pool.ntp.org
Use DHCP (Option 42) `time_date.ntp_dhcp_option`	With Enable Network Time is selected, tick this option to use DHCP to locate the time server. Option 42 specifies the NTP server available to the phone. When enabled, the phone obtains the time in the following priority: 1. Option 42 2. NTP Server 3. Manual time.	1: Enabled 0: Disabled	0



Time Zone and Daylight Savings Settings

Setting	Description	Range	Default
Time Zone `time_date.timezone_offset`	Select your time zone.	See appendix	Europe/Paris
Automatically adjust clock for Daylight Savings `time_date.daylight_saving`	Select to adjust the clock for daylight savings time according to the NTP server and time zone setting. To disable daylight savings adjustment, leave this setting and User-defined Daylight Savings Time unchecked.	1: Enabled 0: Disabled	1
User-defined Daylight Savings Time `time_date.daylight_saving_user_defined`	Select to set your own start and end dates and offset for Daylight Savings time. To disable daylight savings adjustment, leave this setting and Automatically adjust clock for Daylight Savings unchecked.	1: Enabled 0: Disabled	0

Daylight Savings Start
`time_date.daylight_saving_start_month`
`time_date.daylight_saving_start_week`
`time_date.daylight_saving_start_day`
`time_date.daylight_saving_start_hour`
	Set the start date and time for user-defined daylight savings: Month, week, day, and hour.		

Daylight Savings End
`time_date.daylight_saving_end_month`
`time_date.daylight_saving_end_week`
`time_date.daylight_saving_end_day`
`time_date.daylight_saving_end_hour`
	Set the end date and time for user-defined daylight savings: Month, week, day, and hour.		

Daylight Savings Offset (minutes) `time_date.daylight_saving_amount`	Sets the daylight savings offset (in minutes) if you are in a region that observes daylight savings time. Selecting a setting other than Off immediately sets the clock ahead by the selected time.	0, 30, 60	60
Use DHCP (Option 2/100/101) `time_date.timezone_dhcp_option`	If Enable Network Time is selected, tick to use DHCP to determine the time zone offset. Options 2, 100 and 101 determine time zone information.	1: Enabled 0: Disabled	0

NTP server update interval (secs) (Not in WUI) `time_date.ntp_server_update_interval`	Enter interval in seconds to refresh time information with NTP server	0-4294967295	1000

Manual Time Settings

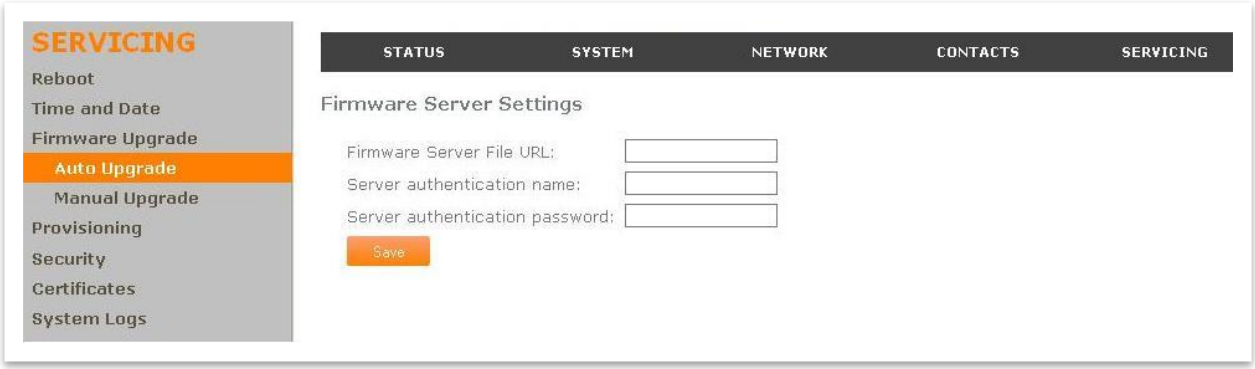
Setting	Description
Date	Select the current year, month, and day.
Time	Sets the current hour, minute, and second.

Click **Apply Now** to start the phone using the manual time settings.

Firmware Upgrade

You can update the phone with new firmware using the following methods:

- Retrieving a firmware update file from a remote host computer and accessed via a URL. This central location may be arranged by you, an authorized distributor, or your SIP service provider. See **Firmware Server Settings**.
- Using a file located on your computer or local network. No connection to the Internet is required. Consult your distributor for access to firmware update files. See **Manual Firmware Update Settings**.



Firmware Server Settings

Setting	Description	Range	Default
Firmware Server File URL `provisioning.firmware_url`	The URL where the firmware update file resides. This should be a full path, including the filename of the firmware file.	string	blank
Server authentication name `provisioning.fw_server_username`	Authentication username for the firmware server	string	blank
Server authentication password `provisioning.fw_server_password`	Authentication password for the firmware server	string	blank

To update the firmware from a remote host:

1. Enter the URL where the firmware update file resides. This should be a full path, including the filename of the firmware file.
2. Go to Manual Upgrade page and click **Upgrade firmware now**.

Note: This URL will be saved when you click **Save** on the Admin Settings page. You can also configure the phone to check for firmware updates at regular intervals or at reboot. See the **Provisioning** page.

Manual Firmware Update and Upload

On the Manual Firmware Update Settings page, you can prompt the phone to immediately download a new firmware file (if available). To update the firmware immediately from the previously programmed url, click **Update Firmware Now**.

To update the firmware using a file on your computer or local network:

1. On the Manual Firmware Update page, click **Choose File** to locate and open the firmware update file.
2. Click **Update from File**.

The phone will update its firmware and restart.

Provisioning

Provisioning refers to the process of acquiring and applying new settings for the phone using configuration files retrieved from a remote computer. After a phone is deployed, subsequent provisioning can update the phone with new settings; for example, if your service provider releases new features.

With automatic provisioning, you enable the phone to get its settings automatically—the process occurs in the background as part of routine system operation. Automatic provisioning can apply to multiple phones simultaneously.

With manual provisioning, you update the phone settings (configuration and/or firmware) yourself. Manual provisioning can only be performed on one phone at a time.

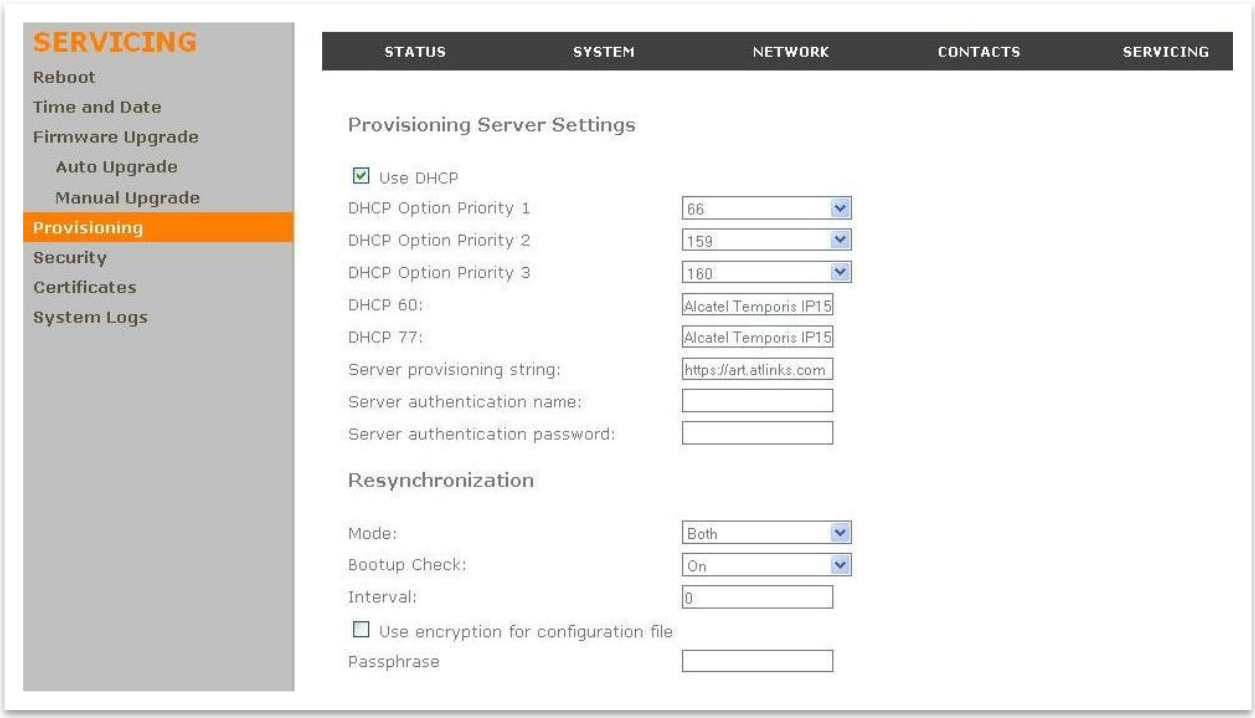
On the **Provisioning** page, you can enter settings that will enable the IP phone to receive automatic configuration and firmware updates. The Provisioning page also allows you to manually update phone configuration from a locally stored configuration file using an Import function. You can also export the phone's configuration—either to back it up or to apply it to another phone—to a file on your computer.

The provisioning process functions according to the **Resynchronization** settings and **Provisioning Server Settings**. The phone checks for the provisioning URL from the following sources in the order listed below. If one of these sources is disabled, not available, or has not been configured, the phone proceeds to the next source until reaching the end of the list.

1. DHCP Options—this setting is set on the WebUI and/or the configuration file. Before enabling the DHCP options on the **Provisioning** page, ensure that DHCP is enabled on the **Network > Basic** settings page. Otherwise, enabling DHCP for provisioning will not work.

2. Preconfigured URL—this setting is set on the WebUI and/or the configuration file.

After changing any settings on this page, click **Save** to save them.



Provisioning Server Settings

Setting	Description	Range	Default
Use DHCP `provisioning.dhcp_option_enable`	Enables the phone to use DHCP options to locate and retrieve the configuration file, starting with the highest priority option. When selected, the phone automatically attempts to get a provisioning server address, and then the configuration file. If DHCP options do not locate a configuration file, then the server provisioning string is checked. Note: Ensure that DHCP is also enabled on the **Network > Basic** settings page.	1:Enabled 0:Disabled	1
DHCP Option Priority 1 `provisioning.dhcp_option_priority_1`	If DHCP is enabled, sets the DHCP Option priority. Select the highest priority option.	66, 159, 160	66
DHCP Option Priority 2 `provisioning.dhcp_option_priority_2`	If DHCP is enabled, sets the DHCP Option priority. Select the second highest priority option.	66, 159, 160	159
DHCP Option Priority 3 `provisioning.dhcp_option_priority_3`	If DHCP is enabled, sets the DHCP Option priority. Select the third highest priority option.	66, 159, 160	160
DHCP 60 `network.vendor_class_id`	DHCP Option 60 is available to send vendor-specific information to the DHCP Server. This way the server can make decisions regarding DHCP options or network parameters to assign to the device.	string	Alcatel Temporis IP150
DHCP 77 `network.user_class`	DHCP Option 77 is available to send vendor-specific information to the DHCP Server.	string	Alcatel Temporis IP150

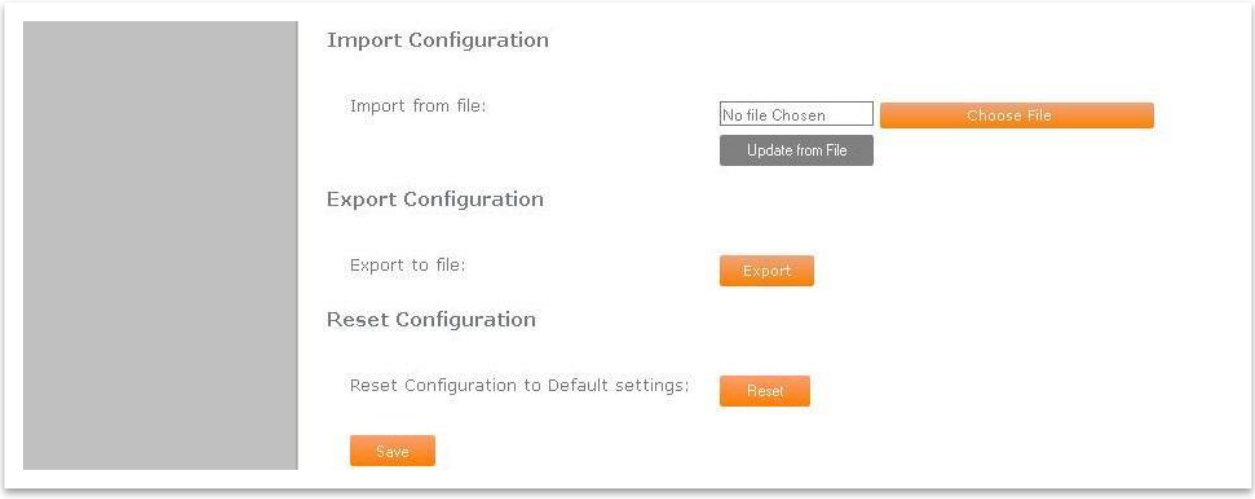
Server provisioning string
`provisioning.provisioning_server_type`
`provisioning.server_address`
`provisioning.server_port`
	URL of the provisioning file(s). The format of the URL must be RFC 1738 compliant, as follows: "<schema>://<user>:<password>@<host>:<port>/<url-path>"
	"<user>:<password>@" may be empty.
	"<port>" can be omitted if you do not need to specify the port number.
		URL	https://art.atlinks.com

Server authentication name `provisioning.server_username`	User name for access to the provisioning server	n/a	n/a
Server authentication password `provisioning.server_password`	Password for access to the provisioning server	n/a	n/a

Resynchronization

Setting	Description	Range	Default
Mode `provisioning.resync_mode`	Sets which files the phone checks for at regular intervals. It can check for configuration files, firmware update files (from the URL entered on the Admin Settings page), or both. Note: When checking for both config and firmware files, the firmware URL can be within the config file. This firmware URL takes take precedence over the url on the admin settings page. It will also update the URL on the admin settings page. This allows you to change the firmware URL automatically.	config_only: Configuration firmware_only: Firmware config_and_firmware: Both	config_and_firmware
Bootup Check `provisioning.bootup_check_enable`	Sets the phone to check the provisioning URL for new configuration and/or firmware files upon boot up. The update is applied as part of the reboot process.	1: On 0: Off	1
Interval (minutes) `provisioning.resync_time`	Sets an interval, in minutes, for periodically checking for updates.	0-65535 0 means no periodic resync will happen	0

Use encryption `provisioning.crypto_enable`	Enables an AES-encrypted configuration file to be decrypted before being applied to the phone. Select if the configuration file has been secured using AES encryption. See Securing Configuration Files with AES Encryption.	0: Disabled 1: Enabled	0
Passphrase `provisioning.crypto_passphrase`	If the configuration file has been secured using AES encryption, enter the 16-bit key. See Securing Configuration Files with AES Encryption.	String	Blank
Remote Check Sync (Not in WUI) `provisioning.remote_check_sync_enable`	If enabled, the phone will react to a NOTIFY(check-sync) in order to launch automatic provisioning.	0: Disabled 1: Enabled	1



Import Configuration

You can configure the phone by importing a configuration file from your computer or your local network. For more information about configuration file types and configuration file formatting, see Provisioning Using Configuration Files on page 80.

To import a configuration file:

1. Click Browse to locate and open the configuration file.
2. Click **Import**.

The phone will update its configuration. If any of the updated settings require the phone to restart, the phone will restart immediately, without waiting for one minute of activity.

Manually importing a configuration file differs from the auto-provisioning process in that the phone does not check whether the file has been loaded before. The configuration file is processed whether or not it is different from the current version.

Export Configuration

You can export all the settings you have configured on the WebUI and save them as a configuration file on your computer. You can then use this configuration file as a backup, or use it to update other phones.

To export the configuration file:

1. Click **Export**.

The format of the exported file is **<model name>_<mac address>.cfg**. For example, **Temporis_IP150_7465D1161234.cfg**.

Exporting a configuration file generates two header lines in the configuration file. These header lines provide the model number and software version in the following format:

```
#Model Number = xxxxxxx
#SW Version = xxxxxxx
```

You can use the exported file as a general configuration file, and duplicate the settings across multiple units. However, ensure that you edit the file to remove any unit-specific SIP account settings before applying the file to other units.

Reset Configuration

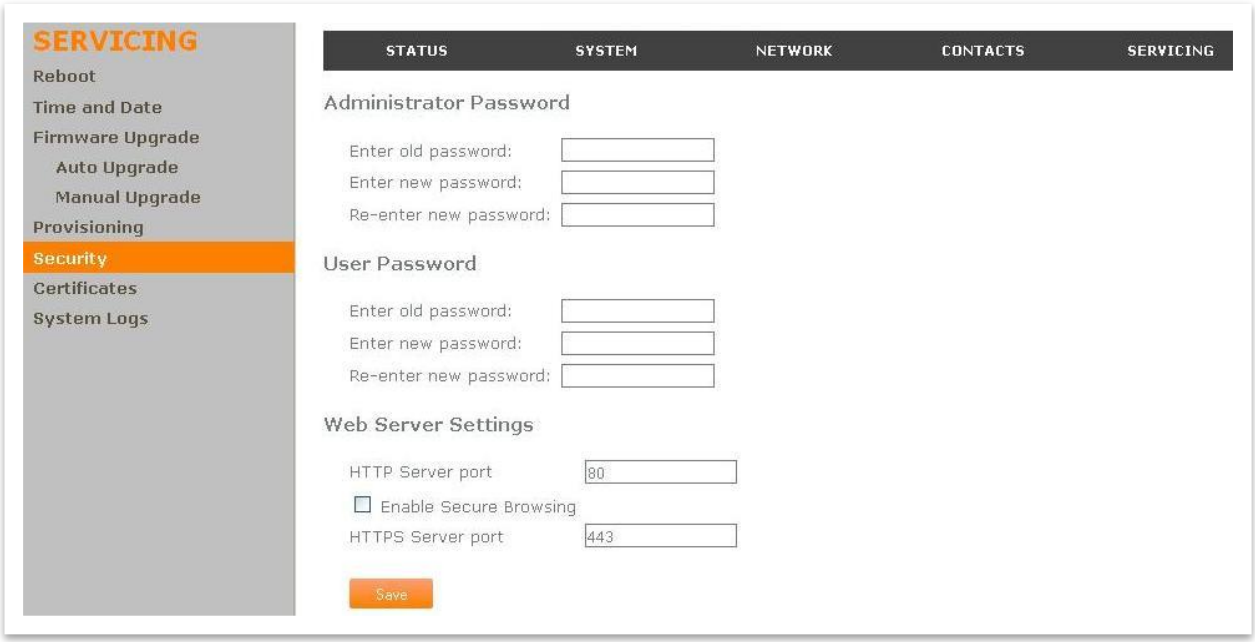
To reset the phone to its default configuration:

Under **Reset Configuration**, click **Reset**.

Security

On the Security page you can reset the admin password, reset the user password, and enter web server settings.

After changing any settings on this page, press **Save** to save them.



Administrator Password

Setting	Description	Range	Default
Admin password: Enter old password Admin password: Enter new password Admin password: Re-enter old password `profile.admin.password`	Enter admin password. The password is case sensitive and can consist of both numbers and letters.	String	admin

To change the admin password:

1. Enter the old password (for a new phone, the default password is admin).
2. Enter and re-enter a new password.
3. Click Save.

User Password

Setting	Description	Range	Default
User password: Enter old password User password: Enter new password User password: Re-enter old password `profile.user.password`	Enter user password. The password is case sensitive and can consist of both numbers and letters.	String	user

To change the User password:

1. Enter the old password (for a new phone, the default password is user).
2. Enter and re-enter a new password. The password is case sensitive and can consist of both numbers and letters.
3. Click Save.

Web Server Settings

Setting	Description	Range	Default
HTTP Server port `web.http_port`	Sets the port where the embedded HTTP server is accessible	0–65535	80
Enable Secure Browsing `web.https_enable`	Sets the server to use the HTTPS protocol.	1: Enabled 0: Disabled	0
HTTPS Server port `web.https_port`	Port used by the embedded HTTPS server.	0–65535	443

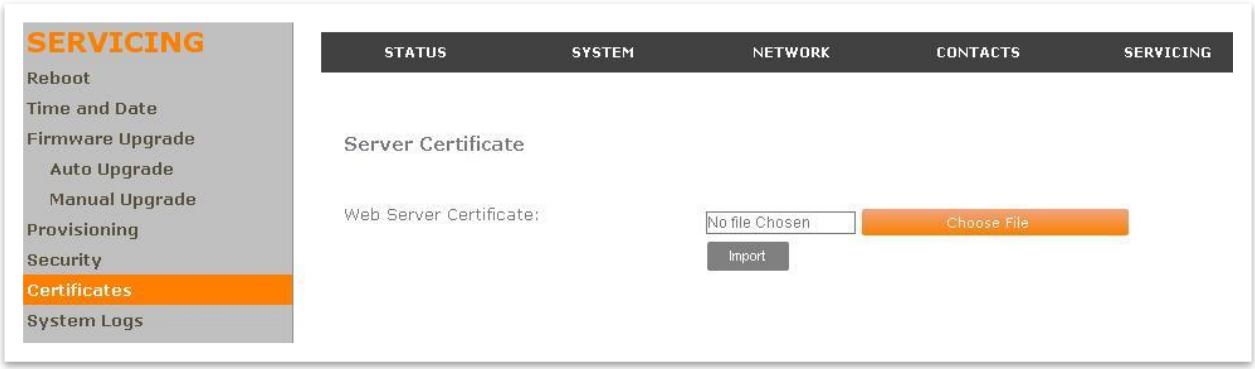
To configure Web Server Settings:

1. Enter the HTTP Server port number. The default setting is 80.
2. Enable or Disable Secure Browsing. When enabled, the HTTPS protocol is used, and you must select the HTTPS server port in the next step.
3. Enter the HTTPS server port number. The default setting is 443.

Certificates

TLS (Transport Layer Security) transport requires security certificates to establish a secure connection between phone and server.

You can upload one or more certificates to the phone using WUI and/or configuration files.



To upload a web server certificate:

1. Under Server Certificate, click **Choose File**.
2. Locate the certificate file and click **Open**.
3. On the Certificates page, click **Import**.

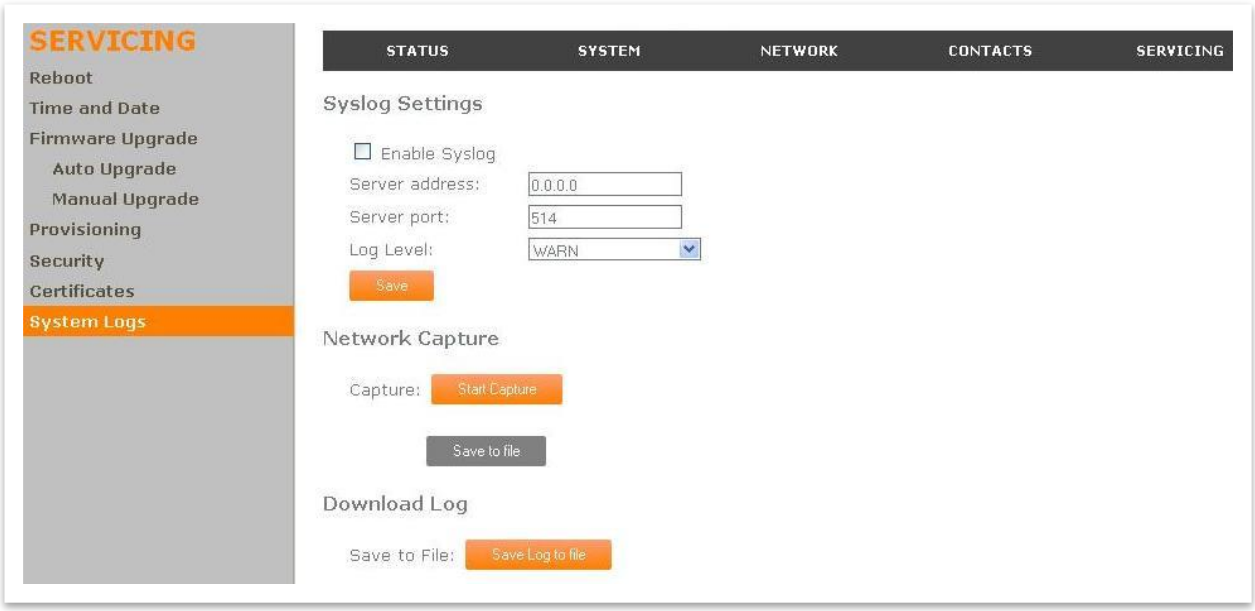
In the configuration file, the web certificate is specified by the `file.https_user.certificate` parameter.

Setting	**Description**	**Range**	**Default**
Import Server Certificate `file.https_user.certificate`	Enter url to download Server Certificate from	URI	blank
Import Provisioning Certificate `file.provisioning.trusted.certificate`	Enter url to download Provisioning Certificate from	URI	blank
Only accept trusted Provisioning certificate `provisioning.check_trusted_certificate`	When enabled, only trusted servers can be used for https provisioning	0: Disabled 1: Enabled	0
Import TLS transport Certificate `file.sips.trusted.certificate.x`	Enter url to download TLS Certificate from	URI	blank
Only accept trusted TLS certificate `sip_account.x.check_trusted_certificate`	When enabled, account x using TLS will only accepted trusted servers	0: Disabled 1: Enabled	0
Use first TLS Certificate for all accounts	When enabled, different	0: Disabled	0

sip_account.use_first_trusted_certificate_for_all	certificates for different accounts will not be required for TLS transport	1: Enabled	
Import LDAP Certificate file.ldap.trusted.certificate	Enter url to download LDAP certificate from	URI	blank
Only accept trusted LDAP certificate remoteDir.ldap_check_certificate	When enabled, only trusted servers can be used for LDAP	0: Disabled 1: Enabled	0
Import Broadsoft Certificate file.broadsoft.trusted.certificate	Enter url to download Broadsoft directory Certificate from	URI	blank
Only accept trusted Broadsoft certificate remoteDir.broadsoft_check_certificate	When enabled, only trusted servers can be used for Broadsoft directory	0: Disabled 1: Enabled	0

System Logs

On the System Logs page, you can enter settings related to system logging activities. You can also generate and download network traces.



Syslog Settings

Setting	Description	Range	Default
Enable Syslog `log.syslog_enable`	Enable log output to syslog server.	1: Enabled 0: Disabled	Disabled
Server Address `log.syslog_server_address`	Syslog server IP address.	IPv4	blank
Server port `log.syslog_server_port`	Syslog server port.	0–65535	514
Log Level `log.syslog_level`	Sets the level of logging. The higher the level, the larger the debug output.	5: ALL 4: DEBUG 3: INFO 2: WARNING 1: ERROR 0: CRITICAL	2

After entering the Syslog Settings, click **Save**.

The logging levels are:

- CRITICAL: Operating conditions to be reported or corrected immediately (for example, an internal component failure or file system error).
- ERROR: Non-urgent failures—unexpected conditions that won't cause the device to malfunction.
- WARNING: An indication that an error or critical condition can occur if action is not taken.

- INFO: Normal operational messages.
- DEBUG: Developer messages for troubleshooting/debugging purposes.

Network Capture

To generate a pcap trace press "Start Capture"

To stop tracing, press "Stop Capture"

To download your capture press "Save to file"

Download Log

To download a copy of the system logs press "Save log to file"

Provisioning Using Configuration Files

Provisioning using configuration files is the quickest way to configure multiple phones. You can place configuration files on a provisioning server, where the phones can retrieve them and update their configuration automatically.

Configuration files have the extension **.cfg** and contain parameters that define various phone settings. To edit a configuration file, open it with a text editor such as Notepad.

Configuration files consist of settings that are grouped into modules. Most of the modules group their settings in the same way that settings are grouped on the WebUI. For example, the "time_date" module contains the same settings that are on the Time and Date WebUI page.

Using the WebUI, you can also import a configuration file and apply the configuration file settings to that phone. For more information, see Provisioning.

Resynchronization—Configuration File Checking

You can select a number of options to set when the phone checks for new configuration files. This process of checking for configuration files is called Resynchronization. Resynchronization options are available on the WebUI **Provisioning** page, but you can also include them in a configuration file.

The resynchronization options are:

- Mode—sets the phone to check for a configuration file only, a firmware update file only, or both types of file.
- Bootup: configuration file checking at reboot is enabled or not
- Remote check-sync—enables you to start a resynchronization remotely using your hosted server's web portal. If the update includes settings that require the phone to reboot, the phone will reboot after one minute of inactivity. The Remote check-sync settings are available only in the configuration file, not the WebUI.
- Repeatedly, at a defined interval from 0 (disabled) to 65535 minutes (45 days).

The Provisioning Process

The phone's automatic provisioning process is as follows:

1. Find configuration server location. The phone will try to fetch its configuration information from the URLs indicated in the DHCP options (if enabled), following the priority set for opts 66, 159, 160. If the download is not successful, then it will try the fixed url set at "Provisioning server string"
2. Download the configuration files.

   The phone fetches the following two files:

   - General file: **<model>.cfg**
   - MAC-specific file: <model>_<MAC Address>.cfg

   Thus, for Temporis IP150 the files would be Temporis_IP150.cfg and Temporis_IP150_<MACAddress>.cfg

3. Check updates. The phone maintains a list of the last loaded provisioning files and their digital signature. The phone compares its current configuration against the files it finds on the provisioning server.

4. If any of the changed settings require the phone to restart, the phone restarts.

During provisioning, the phone reads the configuration file and validates each module and setting are validated. The phone considers a setting valid if it is:

- a valid data type
- formatted as a valid setting
- within a valid data range
- part of a module that passes an integrity check. That is, the module's settings are consistent and logical. For example, in the "network" module, if DHCP is disabled, but no static IP address is specified, the module will fail the integrity check and none of the settings will apply.

Invalid modules or invalid settings are skipped and logged as ERRORs in the system log, but will not interrupt the provisioning process. The system log will include the module parameters that have not been applied. A recognized module with unrecognized settings will cause all other settings in that module to be skipped.

A successful configuration or firmware update is reported as an INFO message in the system log.

See Appendix A: Configuration File Settings for the options and value ranges available for each configuration file setting.

Phone Restart

If the phone needs to restart after an auto-update, the restart happens only after the phone has been idle for one minute.

To prevent users from delaying the update process, or to avoid phone restarts that might interfere with incoming calls, either set the "repeatedly" resynchronization interval to a suitable period, or upload any new configuration file(s) to your provisioning server after work hours so that the phones will download the file(s) when there is little or no call activity.

When you update the phone by importing a configuration file using the WebUI, the phone restarts immediately after applying any new settings that require a restart, regardless of whether the phone is idle.

Configuration File Types

The phone is able to retrieve and download two types of configuration file. Depending on your requirements, you may want to make both types of configuration file available on your provisioning server.

The two configuration file types are a general configuration file and a MAC-specific configuration file. The types differ in name only. The formatting of the files' content is identical.

The general configuration file contains settings that are required by all phones in the system.

The MAC-specific configuration file is a file that only a single phone can retrieve. The MAC-specific configuration file name contains a phone's MAC address and can only be retrieved by the phone with a matching MAC address.

The filename formats for both files are:

- General file: **<model>.cfg** , i.e "Temporis_IP150.cfg"
- MAC-specific file: <model>_<MAC Address>.cfg

Both the general and MAC-specific files can contain any of the available configuration settings. A setting can appear in the general configuration file or the unit configuration file, or both files, or neither file. If a setting appears in both files, the setting that is read last is the one that applies.

When the phone fetches both a general and a MAC-specific configuration file, the general file is processed first. You can configure a setting for most of your phones in the general file, and then overwrite that setting for just a few phones using the MAC-specific file.

Data Files

The configuration file can also include links to data files other than firmware for product customization.

Link to firmware file is included in the "provisioning" module, and described in **Firmware Update** section.

Other allowed data types include the following:

- Directory (contacts, blacklist) in xml format
- Certificates (server, provisioning, LDAP, Broadsoft) in pem format
- Audio profile in xml format

Links to data files are in the configuration file's "file" module. This is where you enter any URLs to the data files you require.

NOTE: The audio profile file is already in place and should only be customized for localization purposes, according to internationally accepted guidelines.

None of these settings are exported when you export a configuration file from the phone. However, you can export a Directory or Blacklist .xml file using the WebUI. After modifying the .xml file, you can use the configuration file "file" module to have the phone import the new file. For a complete list of data file parameters, see

"file" Module: Imported File Settings.

Configuration File Guide

All configuration settings are initially stored in a configuration template file. Copy, rename, and edit the template file to create a general configuration file and the MAC-specific configuration files you will need. You can store the general configuration file and the MAC-specific files on your provisioning server.

Do not modify the header line that includes the model and firmware version.

To save yourself time and effort, consider which settings will be common to all (or the majority of) phones. Such settings might include Call settings, language, and programmable feature key settings. You can then edit those settings in the configuration template and save it as the general configuration file. The remaining settings will make up the MAC-specific configuration file, which you will have to copy and edit for each phone.

Guidelines for the MAC-Specific Configuration File

The phone downloads the MAC-specific configuration file after the Main configuration file. You must create a unit-specific configuration file for each phone in your system. The file name must contain the phone's MAC address, which is printed on a label on the back of the phone, or available on the **MENU > Status > Product Info** screen. For example, a phone with the MAC address of 74:65:D1:16:12:34 would download the **Temporis_ IP150_7465D1161234.cfg** file.

The MAC-specific configuration file contains settings intended exclusively for that phone. Such settings will include SIP account settings such as display name, user ID, authentication ID, and voicemail mailbox ID.

Securing Configuration Files with AES Encryption

You can encrypt your configuration files to prevent unauthorized users modifying the configuration files. The system encrypts files using the AES 256 algorithm. After encrypting a file and placing it on your provisioning server, you can enable the phone to decrypt the file after fetching it from the server.

To decrypt a configuration file you will need a 16-character AES key that you specified when you encrypted the file. The key (or passphrase) is limited to 16 characters and supports special characters **~^`%!&-_+=|.@*:;,?()[]{}<>/\#** as well as spaces.

Note: The encryption of configuration files is supported only for the auto provisioning process. Encrypt files only if you intend to store them on a provisioning server. Do not encrypt files that you intend to manually import to the phone. You cannot enable decryption for manually imported configuration files.

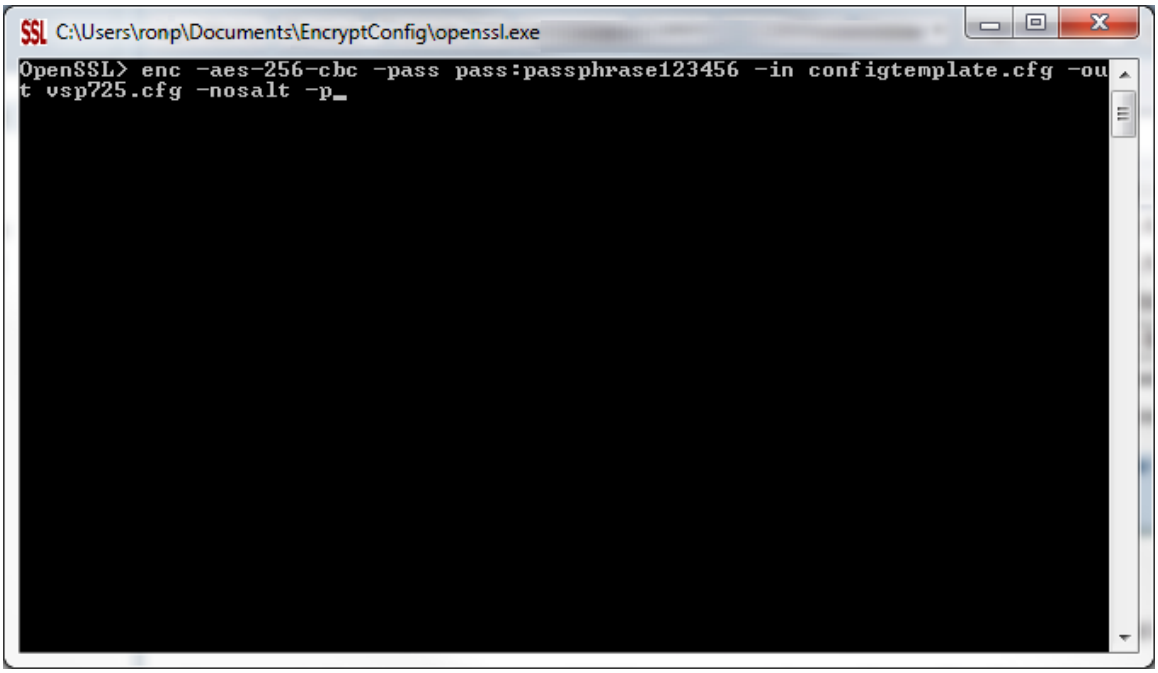
To encrypt a configuration file:

You can use for example an open source tool such as Openssl, which can be downloaded from the Openssl project site. If this is the case, proceed as follows.

1. (Optional) Place your configuration file in the same folder as the openssl.exe file. If the configuration file is not in the same folder as the openssl.exe file, you can enter a relative pathname for the [infile] in the next step.
2. On the openssl command line, type:

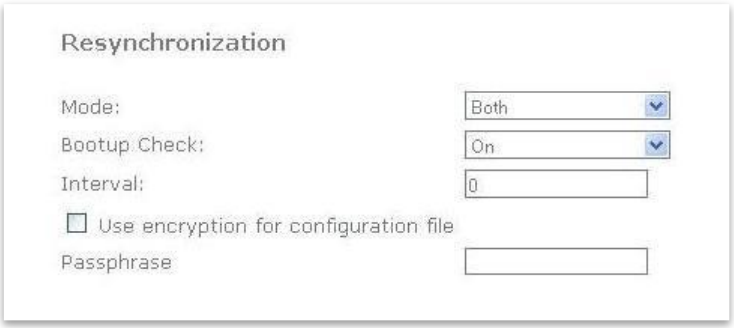
enc -aes-256-cbc -pass pass:[passphrase123456] -in [infile] -out [outfile] -nosalt -p

Elements in brackets are examples—do not enter the brackets. Enter a 16-character passphrase and the unencrypted configuration file filename (the "infile") and a name for the encrypted file ("outfile") that will result.


C:\Users\ronp\Documents\EncryptConfig\openssl.exe
OpenSSL> enc -aes-256-cbc -pass pass:passphrase123456 -in configtemplate.cfg -ou
t vsp725.cfg -nosalt -p_

To enable configuration file decryption via WUI:

1. On the WebUI, click **Servicing > Provisioning**.
2. On the Provisioning page under **Resynchronization**, select **Use Encryption for configuration file**.



3. Enter the 16-character passphrase that you created when you encrypted the configuration file.
4. Click **Save**.

Note: You must ensure that configuration files are encrypted when enabling AES Encryption. Decrypting an unencrypted file will result in a garbage file that is not processed. This will also be logged as an error in the system log.

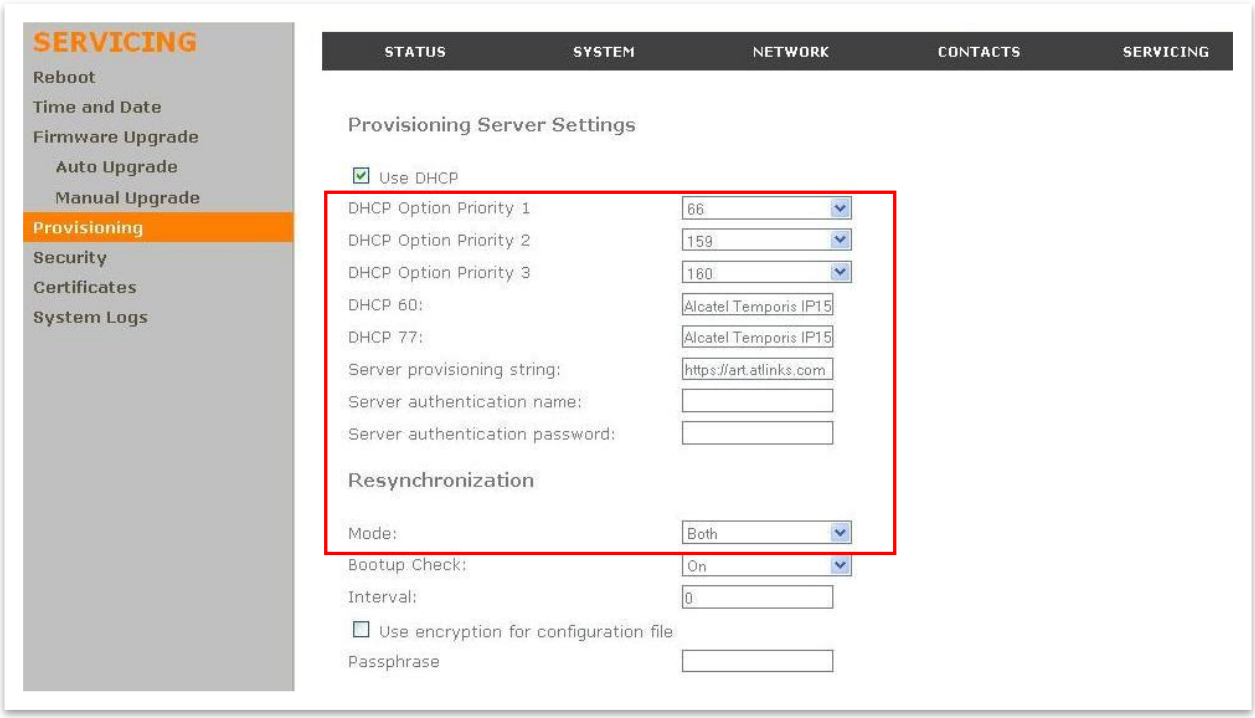
Setting Up Provisioning

Set up your provisioning server and folders for provisioning files. The general and unit configuration files should be in the same folder. Note the IP address, username and password for access to the folder on the provisioning server.

The Provisioning Server Settings will enable the phone to find the general configuration file. In most cases, default settings will make automatic provisioning possible out of the box without any further action on the phone.

The phone will try first to retrieve configuration files location from the different DHCP options, according to their priority. Options 66, 159 and 160 are supported, and either http, https or tftp urls are accepted here.

If the phone does not succeed to find its configuration files in the urls provided in those options, then the Server provisioning string will be used. The default value for this server again allows plug and play automatic provisioning. Check with your distributor to find out how to benefit from APRT service.



If none of these default settings suit your environment, you may have to fill in the server type and address (including a full path to the general configuration file), port, username and password.

Note you can modify Provisioning Server Settings via configuration files; so you could use default settings to perform a first provisioning which rewrites these values to suit your production needs.

Specifications

Operating temperature	(-5°–45°C)
AC adapter output voltage	5 Vdc @ 700mA
Ethernet network ports	10/100 Mbps RJ-45 Ports

Soft Keys

The table below provides an alphabetical list of the labels that appear above the deskset soft keys.

Label	Description
abc/ABC/123	Selects the text format for input
Add	Displays the new directory group editor
Add dot	Enters dot in IP editing field
Answer	Answers an incoming call
Back	Shows the previous screen
Backspc	Moves cursor back to correct entries in text editing fields
Blind	Starts the blind transfer process for the active call
Bridge	Joins the two active calls in a conference and returns to idle screen
Callback	Dials the last missed caller
Cancel	Quits the current page without saving any settings
Conf.	Opens the live dialing editor to enter or insert digits for the conference target. Also finally sets up the conference.
ConfCall	Displays a list of held calls as a target for conferencing with the active call
Del. All	Deletes all records in a list
Delete	1) Deletes current entry 2) Deletes assignment 3) Deletes Directory group
Dial	Sends and dials currently displayed/highlighted digits
Dir	Changes the speed dial directory source
Directory	Opens the list of available directories
Edit	Go to entry/group editor
EditDial	Edits a number stored in a list before dialing

End	1) Closes the current page 2) Ends the current call
Exit	Exits the current screen and returns to the previous menu
Filter	Sorts the directory by all entries, blocked, or non-blocked numbers
FirstNme	Sorts the directory by first name
Forward	Opens the predial editor to begin forwarding a call
Insert	Inserts a number from the directory/call history to a live dialing screen
LastNme	Sorts the directory by last name
Line	Switches between registered lines
New	Press to predial a new call during a call currently put on hold
No	Returns to the previous screen
Quickdial	Access the quickdial list
Reject	Rejects an incoming call
Resume	Resumes a call put on hold
Save	1) Saves current setting 2) Begins save process
Search	Opens the Directory search editor
Select	Selects a highlighted option
Send	Sends the digits entered
Settings	Opens the User settings menu
Silence	1) Silences ringer 2) Stops current call screening 3) Silences chime tone
Split	Breaks a conference or call progress into multiple calls
Status	Access the status submenu
Transfer	Opens the live dialing editor to enter or insert digits of the transfer target. It also finally sets up a transfer.
Type	Switches between the Directory number types within an entry
View	Displays a database/list
XferCall	Displays a list of held calls as a transfer target for the active call
Yes	Confirm

Appendix A: Configuration File Settings

This section lists the available options for all the settings within the configuration file. Most settings in the configuration file have an equivalent in the WebUI (see the settings tables in Using the WebUI). Some parameters are not available on the WUI, and in others the syntax is different as already documented in previous sections.

The settings are divided into modules. Each module loosely corresponds to a page on the WebUI. You may wish to reorganize the modules within the configuration file itself. The configuration file settings can be listed in any order, and the configuration file will still be valid.

Module names include sip_account, network, provisioning, time_date, log, remoteDir, web, user_pref, call_settings, pfk, memory_key, ringersetting, tone, profile and file. Descriptions of each module appear in their own sections in this appendix.

"sip_account" Module: SIP Account Settings

The SIP Account settings enable you to set up individual accounts for each user. You can add up to three accounts for each phone. Each account requires you to configure the same settings. The SIP account settings for each account would be identified by their own account number, from 1 to 2.

For example, for account 1 you would set:

```
sip_account.1.sip_account_enable = 1
sip_account.1.display_name = 1001
sip_account.1.user_id = 2325551001
```

and so on.

For account 2, you would set:

```
sip_account.2.sip_account_enable = 1
sip_account.2.display_name = 1002
sip_account.2.user_id = 2325551002
```

and so on.

The SIP account settings follow the format: sip_account.x.[element], where x is an account number ranging from 1 to 2.

All these settings **except authentication password** are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
sip_account.x.sip_account_enable		0, 1	0
sip_account.x.display_name		Text string	Blank
sip_account.x.user_id		Text string	Blank
sip_account.x.authentication_name		Text string	Blank
sip_account.x.authentication_password		Text string	Blank
sip_account.x.dial_plan	See Dial plan section	Text string	X+P
sip_account.x.inter_digit_timeout		1-10	3

sip_account.x.maximum_call_number		1-6	6
sip_account.x.shared_line_enable		0, 1	0
sip_account.x.barge_in_enable		0, 1	0
sip_account.x.auto_answer_enable		0, 1	0
sip_account.x.feature_sync_enable		0, 1	0
sip_account.x.music_on_hold_enable		0, 1	1
sip_account.x.mwi_enable		0, 1	0
sip_account.x.mwi_ignore_unsolicited		0, 1	0
sip_account.x.mwi_uri		sip uri	Blank
sip_account.x.mwi_subscription_expires		0-65535	3600
sip_account.x.stutter_dial_tone_enable		0, 1	1
sip_account.x.voice_encryption_enable		0, 1	0
sip_account.x.primary_sip_server_port		0-65535	5060
sip_account.x.primary_sip_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_outbound_proxy_server_port		0-65535	5060
sip_account.x.primary_outbound_proxy_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_registration_server_port		0-65535	5060
sip_account.x.primary_registration_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_registration_expires		0-65535	3600
sip_account.x.access_code_page		Text string	Blank
sip_account.x.access_code_park_call		Text string	Blank
sip_account.x.access_code_retrieve_parked_call		Text string	Blank
sip_account.x.access_code_retrieve_voicemail		Text string	Blank
sip_account.x.access_code_dnd_on		Text string	Blank
sip_account.x.access_code_dnd_off		Text string	Blank
sip_account.x.access_code_cfa_on		Text string	Blank
sip_account.x.access_code_cfa_off		Text string	Blank
sip_account.x.access_code_cfna_on		Text string	Blank
sip_account.x.access_code_cfna_off		Text string	Blank

sip_account.x.access_code_cfb_on		Text string	Blank
sip_account.x.access_code_cfb_off		Text string	Blank
sip_account.x.access_code_anonymous_call_block_on		Text string	Blank
sip_account.x.access_code_anonymous_call_block_off		Text string	Blank
sip_account.x.access_code_outgoing_call_anonymous_on		Text string	Blank
sip_account.x.access_code_outgoing_call_anonymous_off		Text string	Blank
sip_account.x.access_code_call_waiting_on		Text string	Blank
sip_account.x.access_code_call_waiting_off		Text string	Blank
sip_account.x.access_code_group_call_pickup		Text string	Blank
sip_account.x.access_code_direct_call_pickup		Text string	Blank
sip_account.x.blf_list_uri		Sip uri	Blank
sip_account.x.blf_remote_pickup_code		Text string	Blank
sip_account.x.nat_traversal_stun_enable		0, 1	0
sip_account.x.nat_traversal_stun_server_port		0-65535	3478
sip_account.x.nat_traversal_stun_server_address		IPv4 or fqdn	Blank
sip_account.x.nat_traversal_udp_keep_alive_enable		0, 1	0
sip_account.x.nat_traversal_udp_keep_alive_interval		0-65535	30
sip_account.x.network_conference_enable		0, 1	0
sip_account.x.network_bridge_uri		sip uri	Blank
sip_account.x.sip_session_timer_enable		0, 1	0
sip_account.x.sip_session_timer_min		90-65535	90
sip_account.x.sip_session_timer_max		0-65535	1800
sip_account.x.dtmf_transport_method	Sets the transport method for DTMF signalling.	auto, rfc2832, in-band, info-method	auto
sip_account.x.codec_priority.1		G.711a, G.711u, G.729, G.726, G.722	G.711u
sip_account.x.codec_priority.2		Auto, G.711a, G.711u, G.729, G.726, G.722	G.711a

sip_account.x.codec_priority.3		Auto, G.711a, G.711u, G.729, G.726, G.722	G.729
sip_account.x.codec_priority.4		Auto, G.711a, G.711u, G.729, G.726, G.722	G.726
sip_account.x.codec_priority.5		Auto, G.711a, G.711u, G.729, G.726, G.722	G.722
sip_account.x.blf.subscription_expires		15-65535	3600
sip_account.x.unregister_after_reboot_enable	Unregister after reboot enable	0, 1	0
sip_account.x.transport_mode	Signalling Transport Mode	"udp", "tcp", "tls"	"udp"
sip_account.x.backup_outbound_proxy_server_port		0-65535	5060
sip_account.x.backup_outbound_proxy_server_address		IPv4 or fqdn	Blank
sip_account.x.local_sip_port	Local SIP port	0-65535	Line 1: 5060 Line 2: 5070
sip_account.x.dscp	Voice Quality of Service Layer 3 – DSCP	6-bit value	46
sip_account.x.sip_dscp	Signalling Quality of Service Layer 3 – DSCP	6-bit value	26
sip_account.x.registration_retry_time		1–1800	10
sip_account.x.check_trusted_certificate	See Certificates section	0,1	0
sip_account.use_first_trusted_certificate_for_all	See Certificates section	0,1	0

"network" Module: Network Settings

The network settings follow the format: network.[element].

These settings can be exported when you manually export the configuration from the phone, except for the settings shaded in gray in the table.

Setting	Description	Range	Default
network.ip.dhcp_enable	Indicates whether DHCP is enabled	0, 1	1
network.ip.dns1	Primary DNS server address	IPv4	blank
network.ip.dns2	Secondary DNS server address	IPv4	blank

network.ip.static_ip_addr	Static IP address	IPv4	blank
network.ip.subnet_mask	Subnet mask	IPv4	blank
network.ip.gateway_addr	Gateway IP address	IPv4	blank
network.nat.masquerading_enable	Enable IP masquerading	0, 1	0
network.nat.public_ip_addr	Public IP address	IPv4	blank
network.nat.public_sip_port	Public SIP port	0-65535	5060
network.nat.public_rtp_port_start	Public RTP port start	0-65535	18000
network.nat.public_rtp_port_end	Public RTP port end	0-65535	19000
network.vlan.wan.enable	Enable vlan on WAN port	0, 1	0
network.vlan.wan.id	WAN port VID	0-4095	0
network.vlan.wan.priority	WAN vlan port priority	0-7	0
network.vlan.pc.enable	Enable vlan on PC port	0, 1	0
network.vlan.pc.id	PC port VID	0-4095	0
network.vlan.pc.priority	PC vlan port priority	0-7	0
network.rtp.port_start	Local RTP port range start	0-65535	18000
network.rtp.port_end	Local RTP port range end	0-65535	19000
network.lldp_med.enable	LLDP-MED enable	0, 1	0
network.lldp_med.interval	LLDP-MED packet interval (seconds)	1-30	30
network.eapol.enable	802-1x EAPOL enable	0, 1	0
network.eapol.identity	802-1x EAPOL identity	string	blank
network.eapol.password	802-1x EAPOL MD5 password	string	blank
network.vendor_class_id	Vendor Class ID (DHCP option 60)	string	Alcatel Temporis IP150
network.user_class	User Class (DHCP option 77)	string	Alcatel Temporis IP150

"profile" Module: security settings

The profile settings follow the format: profile.[element].

These settings are not exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
profile.admin.password	Password for admin	string	admin
profile.user.password	Password for user	string	user

"provisioning" Module: Provisioning Settings

The provisioning settings follow the format: provisioning.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
provisioning.bootup_check_enable	Enable bootup check	0, 1	1
provisioning.crypto_enable	Enable cryptography	0, 1	0
provisioning.crypto_passphrase	Passphrase to decode encrypted config file	string	Blank
provisioning.dhcp_option_enable	Enable DHCP option	0, 1	1
provisioning.dhcp_option_priority_1	DHCP option priority 1	0, 66, 159, 160	66
provisioning.dhcp_option_priority_2	DHCP option priority 2	0, 66, 159, 160	159
provisioning.dhcp_option_priority_3	DHCP option priority 3	0, 66, 159, 160	160
provisioning.firmware_url	Firmware URL	string	Blank
provisioning.fw_server_username	Authentication username for firmware download	String	Blank
provisioning.fw_server_password	Authentication password for firmware download	string	Blank
provisioning.resync_mode	Resync mode	config_only, firmware_only, config_and_firmware	config_and_firmware
provisioning.resync_time	Minutes between checks for new firmware and/or configuration file	0–65535	0
provisioning.server_address	Server address for configuration download	string	https://art.atlinks.com
provisioning.server_username	Authentication username for configuration download	string	blank
provisioning.server_password	Authentication password for configuration download	string	blank
provisioning.remote_check_sync_enable	Enable provisioning start via NOTIFY check-sync	0,1	1

provisioning.click_to_dial	Enable click-to-dial from WUI contacts page	0,1	1
provisioning.check_trusted_certificate	Require trusted certificate for https provisioning	0,1	0

"ringersetting" Module: distinctive ringing settings

The distinctive ringing settings follow the format: ringersetting.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
ringersetting.x.ringer_text	Content of the "info" field in the Alert-info header to match for distinctive ringing for element "x". See Ringer Settings section	Text string	blank
ringersetting.x.ringer_type	Ringer tone to use when there is a match with ringer_text	1-10	1

"time_date" Module: Time and Date Settings

The time and date settings follow the format: time_date.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
time_date.date_format	Format for displaying the date	DD/MM/YY, MM/DD/YY, YY/MM/DD	DD/MM/YY
time_date.24hr_clock	Enable 24-hour clock format	0, 1	1
time_date.ntp_dhcp_option	Enable NTP server DHCP option (opt 42)	0, 1	0
time_date.ntp_server	Enable NTP server	0, 1	1
time_date.ntp_server_addr	Address of NTP server	IPv4 or fqdn	europe.pool.ntp.org
time_date.ntp_server_update_interval	Delay between NTP server updates, in seconds	0 - 4294967295	1000
time_date.timezone_dhcp_option	Enable time zone	0, 1	0

	DHCP option (2/100/101)		
time_date.timezone_offset	Time zone offset, in seconds	-2147483647 to 2147483647	-480
time_date.daylight_saving	Enable daylight savings auto adjust	0, 1	1
time_date.selected_timezone	Set time zone	Please see Appendix B	Europe/Paris
time_date.daylight_saving_auto_adjust		0,1	1
time_date.daylight_saving_user_defined		0, 1	0
time_date.daylight_saving_start_month		January – December	March
time_date.daylight_saving_start_week		1-5	2
time_date.daylight_saving_start_day		"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"	Sunday
time_date.daylight_saving_start_hour		00:00 -23:00	02:00
time_date.daylight_saving_end_month		"January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"	Sunday
time_date.daylight_saving_end_week		1-5	
time_date.daylight_saving_end_day		"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"	
time_date.daylight_saving_end_hour		00:00 -23:00	02:00
time_date.daylight_saving_amount	DST offset in minutes	0–255	60

"log" Module: Log Settings

The log settings control system logging activities.

The log settings follow the format: log.element.

These settings can be exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
log.syslog_enable	Enable log output to syslog server	0, 1	0
log.syslog_server_address	Syslog server IP address	IPv4	blank
log.syslog_server_port	Syslog server port	0-65535	514
log.syslog_level	Log level. The higher the level, the larger the debug output. 5-all 4-debug 3-info 2-warning 1-error 0-critical	0-5	2

"remoteDir" Module: Remote Directory Settings

The remote directory settings follow the format: remoteDir.element.

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
remoteDir.ldap_enable	Enable/disable LDAP	0,1	0
remoteDir.ldap_directory_name	LDAP directory name	String	Blank
remoteDir.ldap_number_filter	LDAP number filter	String	Blank
remoteDir.ldap_firstname_filter	LDAP first name filter	String	Blank
remoteDir.ldap_lastname_filter	LDAP last name filter	String	Blank
remoteDir.ldap_server_address	LDAP server address	IPv4 or fqdn	blank
remoteDir.ldap_port	LDAP server port	0-65535	389
remoteDir.ldap_authentication_type	LDAP authentication type	simple, ssl	simple
remoteDir.ldap_base	LDAP base	String	Blank
remoteDir.ldap_user_name	LDAP user name	String	Blank
remoteDir.ldap_password	LDAP password	String	Blank
remoteDir.ldap_max_hits	LDAP maximum hits	0-65535	200
remoteDir.ldap_firstname_attribute	LDAP first name attribute	String	Blank
remoteDir.ldap_lastname_attribute	LDAP last name attribute	String	Blank
remoteDir.ldap_work_number_attributes	LDAP work number attributes	String	Blank

remoteDir.ldap_mobile_number_attributes	LDAP mobile number attributes	String	Blank
remoteDir.ldap_home_number_attributes	LDAP home number attributes	String	Blank
remoteDir.ldap_protocol_version	LDAP protocol version	version_2, version_3	version_3
remoteDir.ldap_search_delay	LDAP search delay	0-500	0
remoteDir.ldap_incall_lookup_enable	LDAP incoming call lookup	0,1	0
remoteDir.ldap_outcall_lookup_enable	LDAP outgoing call lookup	0,1	0
remoteDir.ldap_check_certificate	Require certificate for ssl LDAP	0,1	0
remoteDir.broadsoft_enable	Enable/disable Broadsoft directory	0,1	0
remoteDir.broadsoft_item	Broadsoft item	item_1, item_2, item_6	item_1
remoteDir.broadsoft_display_name	Broadsoft display name	String	Blank
remoteDir.broadsoft_server	Broadsoft server	IPv4 or fqdn	Blank
remoteDir.broadsoft_port	Broadsoft server port	0-65535	0
remoteDir.broadsoft_user_name	Broadsoft user name	String	Blank
remoteDir.broadsoft_password	Broadsoft password	String	Blank
remoteDir.broadsoft_check_certificate	Require certificate for ssl Broadsoft	0,1	0

"web" Module: Web Settings

The web settings control the web server IP, port, and security settings.

The web settings follow the format: web.element.

These settings can be exported when you manually export the configuration from the phone, except for the settings shaded in gray in the table.

Setting	Description	Range	Default
web.http_port	Sets the http port for the embedded web server	0-65535	80
web.https_port	Sets the https port when https is enabled	0-65535	443
web.https_enable	Sets embedded web server to use the https protocol.	0, 1	0

"user_pref" Module: User Preference Settings

The user settings are accessible to the phone user. These settings are useful for initial setup. You may wish to remove these settings from auto-provisioning update files so that users do not have their own settings overwritten.

The user preference settings follow the format: user_pref.element.

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
user_pref.language	User phone MI language	en, es, fr, de, it, pt, nl	en
user_pref.web_language	WUI language	en, es, fr, de, it, pt, nl	en
user_pref.lcd_contrast	LCD contrast	1-7	4
user_pref.backlight	Backlight level in non idle mode	0,1	1
user_pref.idle_backlight	Idle backlight level	0,1	0
user_pref.backlight_timeout	Backlight timeout in seconds	10-60	30
user_pref.absent_timeout	Timeout(sec.) after which live dial will return to idle without additional dialing digits	10-60	30
user_pref.account.x.ringer	Ringer tone for account x, where x can be 1 or 2	1-10	1
user_pref.ringer_volume	Ringer volume	0-9 (0 is off)	5
user_pref.speaker_volume	Speaker volume	0-9 (0 is off)	5
user_pref.headset_volume	Cordless headset volume	0-9 (0 is off)	5
user_pref.handset_volume	Corded handset volume	0-9 (0 is off)	5
user_pref.audio_mode	Default audio mode	speaker,headset	speaker
user_pref.key_beep_enable	Enable/disable key beeps	0, 1	1
user_pref.hold_reminder.enable	Enable/disable hold reminder	0, 1	1
user_pref.hold_reminder.interval	Hold reminder interval in seconds	10-300	30
user_pref.call_waiting.mode	Call waiting mode	enable, reject	enable
user_pref.call_waiting.tone_enable	Enable/disable	0, 1	1

	call waiting tone		
user_pref.call_waiting.tone_interval	Call waiting tone interval in seconds	10-60	30

"call_settings" Module: Call Settings

The call settings configure data related to a user's call preferences.

All the call settings (except one) follow the format: call_settings.account.x.[element] where x is an account number ranging from 1 to 2.

Setting	Description	Range	Default
call_settings.account.x.block_anonymous_enable	Enable/disable anonymous call blocking	0, 1	0
call_settings.account.x.outgoing_anonymous_enable	Enable/disable outgoing anonymous calls	0, 1	0
call_settings.account.x.dnd_enable	Enable/disable Do Not Disturb	0, 1	0
call_settings.account.x.dnd_incoming_calls	Show or reject incoming calls if DND is on	show, reject	reject
call_settings.account.x.call_fwd_always_enable	Enable/disable call forward always	0, 1	0
call_settings.account.x.call_fwd_always_target	Target number for call forward always	String	Blank
call_settings.account.x.call_fwd_busy_enable	Enable/disable call forward busy	0, 1	0
call_settings.account.x.call_fwd_busy_target	Target number for call forward busy	String	Blank
call_settings.account.x.cfna_enable	Enable/disable call forward no answer	0, 1	0
call_settings.account.x.cfna_target	Target number for call forward no answer	String	Blank
call_settings.account.x.cfna_delay	Delay (in # of rings) before call is forwarded	1-10	6
call_settings.missed_call_alert_enable	Enable/disable missed call alert	0, 1	1

"pfk" Module: Programmable Feature Key Settings

The programmable feature key (PFK) settings store the data associated with each programmable feature key.

The programmable feature key settings follow the format: pfk.x.[element], where x is the programmable feature key ID, ranging from 1 to 20.

Setting	Description	Range	Default
pfk.x.feature	Assigns a feature to the PFK	pfk 1-4, 11-14: unassigned, line, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, busy lamp field, page, in call dtmf, callback, group call pickup, direct call pickup pfk 5: unassigned, line, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, busy lamp field, page, in call dtmf, callback, group call pickup, direct call pickup, lower pfk 6-10, 16-20: unassigned, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, page, in call dtmf, callback, group call pickup, direct call pickup pfk 15: lower	See Programmable Keys on page 7.
pfk.x.account_number	SIP account used for the assigned feature (if applicable)	1-2	1
pfk.x.quick_dial	Quick dial string to use if quick dial is assigned to PFK	sip uri	Blank
pfk.x.blf	BLF string to use if Busy Lamp Field is assigned to PFK	sip uri	Blank
pfk.x.incall_dtmf	DTMF string if in-call dtmf is assigned to pfk.	DTMF digits	Blank

"memory_key" Module: Speed Dial Settings

The memory key settings configure the dial pad keys for speed dialing pre-programmed phone numbers. When configured, the phone user can press and hold a dial pad key to dial a programmed phone number.

The memory key settings follow the format memory_key.x.[element], where x is the dial pad key, ranging from 1 to 0 (with 0 being the "0" key in your dial pad).

Setting	Description	Range	Default
memory_key.x.number	Phone number that the memory key will dial when pressed and held.	String	blank
memory_key.x.name	Name associated to this memory key.	String	blank
memory_key.x.account	SIP account (line) used for dialing when memory key x is pressed and held.	1-2	1

"file" Module: Imported File Settings

The "file" parameters enable the provisioning file to import additional configuration files of various types, including:

- Audio profile
- Contact lists
- Security certificates

File parameter values are URLs that direct the phone to the location of the file to be imported.

None of these settings are exported when you manually export the configuration from the phone.

Setting	Description
file.audio_profile	URL of Audio Profile to be imported.
file.contact.directory.append	URL of xml contact directory to be appended to existing contacts.
file.contact.directory.overwrite	URL of xml contact directory to be imported which will overwrite any existing contacts.
file.contact.blacklist.append	URL of xml contact blacklist to be appended to existing black list.
file.contact.blacklist.overwrite	URL of xml contact blacklist to be imported and will overwrite existing black list.
file.sips.trusted.certificate.x	URL of SIPS certificate to be imported for TLS transport on account x.
file.https_user.certificate	URL of HTTPS certificate to be imported.
file.provisioning.trusted.certificate	URL of certificate to be imported for secure provisioning
file.ldap.trusted.certificate	URL of certificate to be imported for secure LDAP
file.broadsoft.trusted.certificate	URL of certificate to be imported for secure Broadsoft directory

"tone" Module: Tone Definition Settings

The Tone Definition settings configure data for various tones for the purpose of localization. The Audio Manager component uses the data from this model to populate the mcu on bootup.

The tone definition settings follow the format: tone.element.x, where x is the index of the elements, ranging from 1 to 5.

Each definition (or tone element) must be a string of 12 elements separated by a space:

"<num of freq> <freq1> <amp1> <freq2> <amp2> <freq3> <amp3> <freq4> <amp4> <on duration> <off duration> <repeat count>"

Where:

<num of freq>: 0–4
<freq1>: 0–65535
<amp1>: -32768–32767
<freq2>: 0-65535
<amp2>: -32768-32767
<freq3>: 0-65535
<amp3>: -32768-32767
<freq4>: 0-65535
<amp4>: -32768-32767
<on duration>: 0-2^32
<off duration>: 0-2^32
<repeat count>: 0-65535

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Default
tone.call_waiting_tone.num_of_elements		1
tone.call_waiting_tone.element.1		"1 440 -120 0 0 0 0 0 0 500 0 1"
tone.call_waiting_tone.element.[2-5]		blank
tone.hold_reminder.num_of_elements		1
tone.hold_reminder.element.1		"1 770 -120 0 0 0 0 0 0 300 0 1"
tone.hold_reminder.element.[2-5]		blank
tone.inside_dial_tone.num_of_elements		1
tone.inside_dial_tone.element.1		"2 440 -180 350 -180 0 0 0 0 4294967295 0 65535"
tone.inside_dial_tone.element.[2-5]		blank
tone.stutter_dial_tone.num_of_elements		2
tone.stutter_dial_tone.element.1		"2 440 -180 350 -180 0 0 0 0 100 100 10"
tone.stutter_dial_tone.element.2		"2 440 -180 350 -180 0 0 0 0 4294967295 0 65535"

tone.stutter_dial_tone.element.[3-5]		blank
tone.busy_tone.num_of_elements		1
tone.busy_tone.element.1		"2 480 -180 620 -180 0 0 0 0 500 500 65535"
tone.busy_tone.element.[2-5]		blank
tone.ring_back_tone.num_of_elements		1
tone.ring_back_tone.element.1		"2 440 -180 480 -180 0 0 0 0 2000 4000 65535"
tone.ring_back_tone.element.[2-5]		blank

Appendix B: Time Zones

Maintenance

Taking care of your telephone

- Your telephone contains sophisticated electronic parts, so you must treat it with care.
- Avoid rough treatment.
- Place the corded handset down gently.
- Save the original packing materials to protect your telephone base if you ever need to ship it.

Avoid water

- You can damage your telephone if it gets wet. Do not use the corded handset in the rain, or handle it with wet hands. Do not install the telephone near a sink, bathtub or shower.

Electrical storms

- Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electric appliances during storms.

Cleaning your telephone

- Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap.
- Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the telephone should fall into water, DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND NETWORK CABLE FROM THE WALL, then pull the unit out by the unplugged cords.

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Important Safety Information

This symbol is to alert you to important operating or servicing instructions that may appear in this user's manual. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electric shock.

- Read and understand all instructions in the user's manual. Observe all markings on the product.
- Avoid using a telephone during a thunderstorm. There may be a slight chance of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak. Under certain circumstances, a spark may be created when the adapter is plugged into the power outlet, or when the handset is replaced in its cradle. This is a common event associated with the closing of any electrical circuit. The user should not plug the phone into a power outlet, and should not put a charged handset into the cradle, if the phone is located in an environment containing concentrations of flammable or flame-supporting gases, unless there is adequate ventilation. A spark in such an environment could create a fire or explosion. Such environments might include: medical use of oxygen without adequate ventilation; industrial gases (cleaning solvents; gasoline vapors; etc.); a leak of natural gas; etc.
- Do not use this product near water, or when you are wet. For example, do not use it in a wet basement or shower, or next to a swimming pool, bathtub, kitchen sink, or laundry tub. Do not use liquids or aerosol sprays for cleaning. If the product comes in contact with any liquid, unplug any line or power cord immediately. Do not plug the product back in until it has dried thoroughly.
- Install this product in a protected location where no one can trip over any line or power cords. Protect cords from damage or abrasion.
- If this product does not operate normally, see the Troubleshooting section in your product's manual. If you cannot solve the problem, or if the product is damaged, refer to the Limited warranty. Do not open this product except as directed in your user's manual. Opening the product or reassembling it incorrectly may expose you to hazardous voltages or other risks.
- This power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, an under-the-table or cabinet outlet.

Caution: Use only the original power adapter for this product. To obtain it, check with your authorized distributor or reseller.

SAVE THESE INSTRUCTIONS

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CE Declaration of conformity

CE

Hereby, it's declared that this phone is in conformity with the essential requirements and other relevant provisions of the CE. You can download full declaration from www.alcatel-business.com

CE Mark Warning

This is a class B device, in a domestic environment; this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

European Warranty

GPL License Information

Portions of the software associated with this product are open source, and fall within the scope of the GNU General Public License (GPL).